




# Hamjeth Misree

Senior Software Engineer

## Career Objective

As a seasoned Software Engineer with over four years of industry experience, I'm eager to further my career within the IT sector. I aim to drive technological innovation by utilizing my academic and professional skills in Software Engineering and IT Management. I strive to transform research into practical applications, fostering creativity and innovation. I'm seeking a role within a dynamic organization that nurtures and develops cutting-edge technologies, where I can grow and substantially contribute to the field.

## Contact Information


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## Professional Profiles

 **GitHub:** [Hamjeth68](https://github.com/Hamjeth68)

 **LinkedIn:** [Hamjeth Misree](https://www.linkedin.com/in/Hamjeth Misree)

 **Portfolio Website:** <https://hamjeth.vercel.app/>

## Educational Qualifications

- **BSc (Hons) Computer Science** with specialization in Software Engineering, Kingston University London, 2021.
- **Higher National Diploma in Software Engineering**, Pearson Assured, ESoft Metro Campus Colombo 04, 2019.

## Technical Skills

### Mobile Development:

- **Native Android JAVA:** Proficient in building Android applications with Java, focusing on performance and user experience.
- **Kotlin:** Advanced skills in Kotlin for modern Android development, emphasizing safety, clarity, and tooling support.
- **React-Native (Android & IOS):** Expertise in developing cross-platform mobile applications using React-Native, ensuring seamless functionality on both Android and iOS platforms.
- **Flutter:** Skilled in using Flutter for creating natively compiled applications for mobile, web, and desktop from a single codebase.

### Frontend Web Development:

- **JavaScript:** Comprehensive knowledge of JavaScript for dynamic web content and interactive features.
- **Angular Core:** Experienced in Angular for developing scalable web applications with a clean and maintainable codebase.
- **React.js / Expo:** Proficient in using React.js and Expo for building user interfaces and mobile applications with web technologies.
- **Next.js:** Advanced skills in Next.js for server-side rendering, static site generation, and building scalable web applications.

### **Backend and API Development:**

- GraphQL: Expertise in using GraphQL for designing and implementing APIs that improve data retrieval efficiencies.

### **DevOps and Continuous Delivery:**

- Continuous Integration / Continuous Delivery (CI/CD) Tools: Experienced in automating software delivery processes, ensuring rapid and reliable release cycles.
- Microsoft App Center: Skilled in using Microsoft App Center for continuous integration, testing, release management, and monitoring of mobile apps.
- AWS: Proficient in Amazon Web Services for scalable cloud solutions, including computing, storage, and database services.
- Cloud Native: Advanced understanding of cloud-native technologies and architectures for building and running scalable applications in modern, dynamic environments.

### **Testing and Methodologies:**

- E2E Testing: Expertise in end-to-end testing to ensure applications work as expected from the user's perspective.
- Agile Practitioner: Experienced in Agile methodologies, enhancing team productivity and project management.
- TDD Development: Proficient in Test-Driven Development, emphasizing the creation of tests before code to ensure software quality.
- CDD Development: Knowledgeable in Consumer-Driven Contract testing for ensuring API compatibility and reliability across microservices.

### **Design and Security:**

- Solution Designing with UML: Skilled in using Unified Modeling Language for designing and visualizing system architectures.

- Security Compliance for Web/Mobile: Expertise in implementing security standards and practices to protect web and mobile applications from vulnerabilities.

## **Professional Experience**

### **Senior Software Engineer - Ferry Pay**

**February 2023 - Current**

Ferry Pay is a pioneering financial technology brand dedicated to revolutionizing business operations, employee retention, and tax liability management. As the backbone of the hospitality and retail industries, Ferry Pay introduces an all-encompassing solution designed to automate instant payouts, ensure tax compliance, and streamline operational efficiencies. Our proprietary platform seamlessly integrates into existing point-of-sale systems, eliminating the need for additional software and reducing the risk of IRS fines.

At the heart of Ferry Pay's innovation lies its capability to offer flexible wage and tip payout solutions, thereby enhancing operational flow and employee satisfaction. By automating tip distribution and providing transparent shift-end procedures, Ferry Pay addresses the industry's challenge of managing cash tips, thereby ensuring a smoother, more reliable process for both employers and employees.

Ferry Pay empowers employees with unparalleled payment flexibility, allowing instant access to earnings through a digital wallet, payroll cards, or direct bank transfers. This immediate access to funds is a cornerstone of our commitment to improving worker satisfaction and financial well-being.

#### **Technical Insights:**

Our solution is built on a robust stack that includes React-Native for cross-platform mobile application development and Next.js for our front-end web application, ensuring a seamless and responsive user experience across all devices. We leverage TypeScript for its strong typing features, enhancing code quality and maintainability.

For backend infrastructure and operations, Google Cloud Platform (GCP) and AWS Amplify offer scalable, secure environments for our core banking functionalities and enterprise tip software. Integration with tools such as Segment, Zendesk, SendGrid, and Twilio enriches our operational workflows with analytics, customer service, communication, and reporting capabilities.

The development process incorporates modern DevOps practices, including FastLane for continuous integration and continuous deployment (CI/CD), ensuring rapid, reliable delivery of updates. Security and authentication are bolstered by STYTCH, while Firebase App Distribution and Firebase Test Lab facilitate efficient testing and distribution processes. Error monitoring and performance metrics are managed through SENTRY.io, ensuring high reliability and user satisfaction.

### **Project Role: Senior Software Engineer**

As the sole Senior Software Engineer for Ferry Pay, I spearheaded the development of both the mobile application and web platform, translating complex requirements into a seamless, user-friendly digital banking experience. My role encompassed the entire product lifecycle, from conceptualization to deployment, including:

- **Full-Stack Development:** Designed and implemented the front-end and back-end architecture for Ferry Pay's mobile app and web platform, using a combination of React-Native, TypeScript, Next.js, and Electron.js for a cohesive ecosystem across devices.
- **Operational Workflows:** Engineered operational workflows within ReTool for core banking processes, including dispute resolution, user account modifications, and identity verification, ensuring compliance and user security.
- **System Integrations:** Orchestrated integrations with key services like Segment for analytics, Zendesk for customer support, SendGrid for transactional emails, and Twilio for communications, enhancing the platform's functionality and user engagement.
- **Banking and Transactional Flows:** Developed comprehensive workflows for banking products, covering account applications, card issuance, statement generation, and dispute initiation, using GraphQL for efficient data handling and mutations.
- **Enterprise Software Development:** Led the backend and frontend development of the Ferry Tip Portal, including UX mapping and reskinning the in-POS experience, crucial for enhancing the tipping process and management oversight.

- **Cloud Transition and API Development:** Successfully transitioned the product from on-premise to cloud infrastructure, utilizing GCP and AWS Amplify for scalable, secure backend services. Developed outbound APIs to link the banking product with third-party services, extending functionality and accessibility.

#### References:

- [Ferry Pay IOS](#)
- [Ferry Wallet Native on Google Play](#)

#### Software Engineer - Codelantic (Pvt) Ltd

##### September 2021 - April 2023

During my tenure at Codelantic (Pvt) Ltd. as a Software Engineer, I had the opportunity to work with a diverse range of technologies that brought about significant improvements in our operations.

- **GraphQL:** This technology was instrumental in improving our API interactions. It streamlined data loading processes and reduced the amount of data transferred over the network. This optimization greatly enhanced the efficiency of our API calls and resulted in more responsive and faster applications.
- **Kubernetes:** To effectively manage the scaling of our containerized applications, I implemented Kubernetes. This tool proved to be especially useful for managing the Spring Boot backend. It simplified the process of deploying, scaling, and operating application containers across clusters of hosts, leading to robust and flexible applications.
- **React Native Navigation:** I utilized React Native Navigation intending to enhance the user navigation experience within our React Native applications. This technology provided a more native feel to the applications, significantly improving user engagement and satisfaction.
- **Serverless Architecture (AWS Lambda):** In a bid to optimize backend operations, we adopted a serverless architecture, specifically AWS Lambda. This decision resulted in a significant reduction in operational costs and improved scalability, allowing us to handle increased traffic and demand seamlessly.

- **Machine Learning and AI:** I leveraged Machine Learning and Artificial Intelligence to create personalized user experiences. This was particularly evident in recommending transactions or menu items based on user behavior. This personalized approach led to increased user satisfaction and engagement.

### **Projects:**

- **SpotonMoney:** I was involved in the development of SpotonMoney, a mobile banking application designed for seamless global money transfers. The project consisted of a React Native-based mobile app, a React web app, and an admin portal. A key aspect of this project was the creation of a dynamic UI/UX with customizable features. We achieved this by leveraging DTO objects, resulting in a responsive design that could easily adapt to platform changes. The technologies used in this project included React-Native, Android, Objective-C, Spring-Boot, MySQL, Crashlytics, AWS, JSX, Redux, Redux-Sagas, Swift, and CI/CD.
- **Namasthe India:** In this project, I led the development of Namasthe India, an e-commerce application for restaurant management. The project involved integrating front-end and back-end systems for optimal performance. A crucial part of this project was the use of Redux for state management and navigation. Further, the Spring Boot backend was hosted in Docker containers for scalability and reliability. Technologies used included React-Native, Android, Objective-C, Spring-Boot, MySQL, Crashlytics, AWS, JSX, Redux, Redux-Sagas, Swift, and CI/CD.

### **References:**

- [Namaste India](#)
- [SpotonMoney](#)

**Software Engineer** - Adage Digital

*September 2020 - August 2021*

My professional experience in software engineering has been marked by the application of various technologies, including Next.js, Microservices Architecture, Docker Swarm or Kubernetes, Stripe Payment Intents API, and Learning Management System (LMS) Integrations:

- **Next.js:** I leveraged Next.js for server-side rendering and static site generation. This substantially enhanced the Search Engine Optimization (SEO) and performance of the educational platform I was working on. By allowing each page to pre-render at build time, we were able to provide instantaneous loading and a better user experience.
- **Microservices Architecture:** A significant part of my work involved breaking down the Node.js backend into smaller, more manageable pieces. This approach, known as Microservices Architecture, improved the scalability of our system and made updates easier to implement. It allowed us to develop, deploy, and scale individual components of our application independently, leading to greater flexibility and efficiency.
- **Docker Swarm or Kubernetes:** To better manage and orchestrate our containerized applications, I utilized tools like Docker Swarm and Kubernetes. These technologies played a critical role in ensuring high availability and load balancing. Their use streamlined the deployment process, improved our capacity to recover from system failures, and led to more efficient use of resources.
- **Stripe Payment Intents API:** To handle more complex payment flows, such as subscriptions with free trials, discounts, or multiple subscription tiers, I integrated the Stripe Payment Intents API. This API allowed us to implement dynamic and flexible payment options, enhancing the overall user experience and boosting the platform's revenue.
- **Learning Management System (LMS) Integrations:** I expanded the platform's capabilities in course management and delivery by integrating it with Learning Management Systems (LMS) such as Moodle or Canvas APIs. This enabled users to access a wider range of educational resources and tools, contributing to the platform's value proposition.

One of the most significant projects I worked on during this period was the Lawma Academy:

- **Project: Lawma Academy** - I was instrumental in creating a digital educational platform that incorporated a payment gateway. We adhered to a React component and container pattern which allowed for a modular and maintainable codebase.
- I designed and implemented a robust back-end architecture using Node.js and MySQL. This architecture was hosted on Docker, enhancing both performance and scalability. This setup



allowed us to handle large amounts of data and user requests efficiently.

- I also integrated Stripe for payment processing. This integration established a reliable subscription model for the platform's services, providing a steady revenue stream and improving financial stability.
- **Technologies:** The platform was built using a variety of technologies, including React.js, Node.js, Redux, Firebase, AWS, Digital Ocean, REST API, and CI/CD. Each of these technologies played a crucial role in shaping the platform's functionality and performance.
- **Reference:** [Lawma Academy](#)

## **Associate Software Engineer**

### **Victory Information (Pvt) Limited & Genxt Sri Lanka (Pvt) Limited**

*December 2019 - September 2020*

During my tenure as an Associate Software Engineer at Victory Information (Pvt) Limited & Genxt Sri Lanka (Pvt) Limited, I was involved in two key projects that honed my technical skills and enriched my professional development.

- **ERP Payroll System for Genxt Sri Lanka:** One of the main projects I was tasked with was designing and developing a web portal for employee back-office tasks. This project was focused on creating a leave calculation module that would streamline the process of managing employee leaves. Given the complexity and precision required, this project challenged me to utilize my skills effectively and efficiently.
  - **Technologies Used:** To successfully develop this project, I used a wide array of technologies including [ASP.Net](#), Entity-Framework, [ADO.Net](#), Web Forms, WEB API, LINQ, EDMX, GitHub, WCF, WPF, and CI/CD. These technologies enabled me to build a robust, secure, and scalable web portal that met the client's needs effectively.
- **SriKantha Motors (Pvt) Limited:** Concurrently, I was also involved in developing a budget management web app for SriKantha Motors (Pvt) Limited. This project required the use of Angular 6 for the front end and Spring Boot for the back end, all within an event-driven architecture. This project was an excellent opportunity to further my understanding of front-end and back-end development, as well as the integration between the two.

- **Technologies Used:** To ensure the success of this project, I utilized a variety of technologies including Angular 6, Spring Boot, Kafka, .NET, MySQL, Protractor, React.js, Node.js, Redux, Firebase, Azure DevOps, Digital Ocean, MongoDB, CI/CD. These technologies were instrumental in developing a functional and user-friendly budget management app.

## **Intern Software Engineer**

### **Koombiyo IT**

*January 2019 - December 2019*

During my time as an Intern Software Engineer at Koombiyo IT, I had the opportunity to contribute to several noteworthy projects. My role was instrumental in bringing digital solutions to end-users, and in doing so, I gained experience working with a diverse range of technologies.

- **KoombiyoDelivery.lk:** I had the opportunity to work on KoombiyoDelivery.lk, a logistics platform that reaches millions of users every month. The primary aim of this platform is to digitize package delivery services, making them more accessible and efficient for end-users. My role involved working on various aspects of the platform, from front-end development to back-end integration, which allowed me to hone my technical skills and gain a good understanding of the logistics industry.
  - **Technologies Used:** For this project, I utilized a variety of technologies including React.js for the front-end development, Node.js for the backend, Redux for state management, Firebase for cloud services, and MongoDB for the database. Additionally, I used Azure DevOps and Digital Ocean for development operations and REST Api for the interface. Continual Integration and Continuous Deployment (CI/CD) were also integral parts of the development process.
  - **Reference:** <https://koombiyodelivery.lk/>
- **Ayp.lk:** Another significant project I contributed to was Ayp.lk. This platform is one of the leading e-commerce platforms in Sri Lanka, providing buy-and-sell services to end-users. A key aspect of this platform is its front-end architecture, which is based on React. During my tenure, I was responsible for contributing to the platform's development, which provided me with a comprehensive understanding of e-commerce operations and advanced my front-end development skills.

- **Technologies Used:** Similar to [KoombiyoDelivery.lk](https://koombiyodelivery.lk), this project involved using React.js for the front end, Node.js for the back end, and Redux for state management. Firebase provided cloud services, while Azure DevOps and Digital Ocean facilitated development operations. MongoDB served as the database, and REST Api was used as the interface between different software components. The development process also heavily relied on CI/CD for efficient and reliable updates.
- **Reference:** <https://ayp.lk/>