

# Arjun Suresh

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## EDUCATION

### University of Southern California

Master of Science in Computer Science - 3.65/4.00

Los Angeles, CA

Aug 2024 – May 2026

### Model Engineering College

Bachelor of Technology in Computer Science - 9.19/10.00

Kerala, India

Aug 2018 – Jul 2022

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Swift

**Frameworks:** Spring Boot, Flask, React, Node.js, Flask, JUnit, FastAPI

**Developer Tools:** Git, Docker, AWS, Google Cloud Platform, MongoDB, PostgreSQL, Redis

## EXPERIENCE

### Software Development Engineer

Aug 2022 – Jul 2024

*ThoughtWorks*

*Bangalore, India*

- Rebuilt an end-to-end reconciliation solution for a \$13Bn financial services client, automating manual processes, cutting down reconciliation time from 1 week to under 1 hour (99.4%), and achieving 99% accuracy
- Implemented multiple **public-facing** and internal **microservices** that communicate through events and secure RESTful APIs (JWT, rate limiting) handling 350k+ daily transactions, ensuring scalability, reliability, and seamless cross-service collaboration
- Developed multiple public-facing REST APIs in Java Spring Boot (MVC) for 100k+ users, delivering business-critical features like device lock/unlock on unpaid EMIs and payment reminders
- Created internal tools (e.g., a BRS summary generator) and ETL pipelines to ingest, cleanse, and transform large datasets daily, providing high-performance data readiness for next-day operations and streamlining workflows

### Software Development Intern

Jan 2022 – Apr 2022

*ThoughtWorks*

*Bangalore, India*

- Collaborated to build an event booking platform using **Spring Boot**, **Postgres**, and **React.js**, leveraging **Microservices** and **MVC** principles. Deployed on **AWS** to ensure scalability and a seamless user experience
- Gained proficiency in **software development** through extensive training in **Java**, **Object-Oriented Design**, **software architecture**, and **test-driven development (TDD)**. Achieved 100% test coverage through TDD
- Implemented feature flags with Spring Boot and **AWS Parameter Store**, enabling feature toggling for controlled rollouts, improving deployment flexibility and reducing risks
- Collaborated within an **Agile** team environment, leveraging **Jira** for story tracking, complexity analysis, and sprint planning, maintained efficient application development and improved team productivity

## PROJECTS

### GDHM | Java, Vue, Chart.js, PostgreSQL, Jenkins, AWS

Jan 2023 – Jul 2023

- Co-developed a responsive web platform leveraging Spring Boot, Vue.js, and Chart.js to visualize 23 digital health indicators across 50+ countries, supporting 20+ NGOs; earned recognition from the World Health Organization
- Designed and developed a scalable PostgreSQL database hosted on AWS RDS for performance-critical APIs in the GDHM project, ensuring high query efficiency and seamless Spring Boot backend integration

### iOS Weather App | SwiftUI, Xcode, Python, Flask, Tomorrow.io API

Nov 2024 – Dec 2024

- Built an iOS application using SwiftUI and Xcode, following an MVC architecture to display real-time weather data with dynamic UI updates
- Designed and deployed a scalable Flask backend on Google Cloud Platform (GCP) to securely handle API calls and integrated MongoDB Atlas for storing user preferences (favorites), ensuring seamless backend synchronization
- Created interactive visualizations using HighCharts to display daily temperature trends and weekly forecasts, enhancing user engagement

### Real-Time Stock Analysis & Trading | Node.js, React.js, Finnhub API, Highcharts

Dec 2024 – Jan 2025

- Developed a scalable Node.js backend for real-time stock trading and market analysis, deployed on Google App Engine
- Implemented a client-side React.js interface utilizing the Finnhub API for real-time stock data visualization
- Leveraged Highcharts to present user-friendly, interactive stock charts and portfolio performance insights