



# DHILIPANRAJA JOSEPH

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## Senior Software Engineer

GitHub – [github.com/dhilipanraja-joseph](https://github.com/dhilipanraja-joseph)

Personal Web – [dhilipanrajajoseph.com](https://dhilipanrajajoseph.com)

### EDUCATION

Bachelor's degree  
*Computer Science and Engineering*  
*Anna University, Chennai India.*

Associate's degree  
*Diploma in*  
*Java Technologies, NIIT, Chennai.*

Certification  
*Network Management & Security,*  
*University of Houston, Clear Lake.*

### TECHNICAL SKILLS

Languages: JavaScript (ES6+),  
TypeScript, Java, Python

Frontend: ReactJS, NextJS,  
Svelte

Mobile: React Native, Native  
Android (Java)

Backend: Node.js, Spring Boot

Databases: PostgreSQL,  
MongoDB

Cloud & DevOps: AWS S3,  
GitHub Actions, Fastlane,  
LaunchDarkly

Testing: Jest, Appium,  
Cucumber, JUnit

### PROFESSIONAL SUMMARY

Senior Software Engineer with 8+ years of experience specializing in React Native, frontend architecture, and mobile application development. Proven track record of delivering scalable, high-performance applications used by enterprise clients such as Genuine Parts Company and Bank of America. Expertise in building cross-platform mobile solutions, optimizing performance, and implementing CI/CD

### WORK EXPERIENCE

#### Senior Software Engineer - Genuine Parts Company | Nov 2021 – Present

##### Key Contributions

- Architected and developed NAPA PROTracker (React Native) and Dispatcher (React Web App) platforms, improving last-mile delivery efficiency across 5,000+ stores North America and APAC regions
- Built custom Android Native Modules enabling high-precision background location tracking, resolving critical delivery tracking gaps via Google Play Service's Fused Location Provider, ensuring reliable driver tracking during app state changes and power-saving modes
- Engineered real-time synchronization between mobile apps and backend systems using Spring Boot and PostgreSQL, enabling live fleet visibility and route tracking
- Integrated AWS S3-based proof-of-delivery system with customer signature capture and image storage for compliance and audit tracking
- Reduced manual entry errors by 80% by implementing barcode scanning using React Native Vision Camera
- Improved app performance and offline reliability by TanStack Query with optimized caching strategies using AsyncStoragePresister
- Managed feature lifecycle using LaunchDarkly, utilizing feature flags for pilot test stores, progressive rollouts, and remote feature toggling
- Contributed to mobile automation suite using Java, Cucumber, and Gherkin, ensuring high-quality feature releases through Behavior-Driven Development (BDD)

### ◎ **Project Highlights**

- Led transition from Proof of Concept to full-scale production system for NAPA PROTracker ecosystem, ensuring scalability and reliability
- Designed real-time fleet tracking system using Mapbox integration, improving dispatcher visibility into driver routes and ETAs
- Established Appium as the organizational standard for mobile automation, improving test coverage
- Leveraged AI tools (Codex, Claude, Gemini) to accelerate development, refactoring, and debugging workflows
- Contributed to CI/CD, supporting migration from Microsoft AppCenter to GitHub Actions and Fastlane
- Developed Proof of Concepts (POCs) to evaluate new technologies and validate architectural decisions

### ◎ **Leadership & Collaboration**

- Mentored junior engineers through structured onboarding, code reviews, and pair programming sessions
- Led Agile ceremonies including sprint planning, technical discovery, and backlog refinement
- Translated business requirements into scalable technical solutions and actionable development tasks
- Managed offshore QA teams and coordinated cross-functional collaboration across product, QA, and DevOps teams
- Conducted field visits and real-time user feedback sessions to enhance usability and align solutions with business needs
- Managed mobile app releases, ensuring smooth versioning and deployment across mobile platforms

### ◎ **Monitoring & Optimization**

- Monitored application performance and system health using New Relic, and GCP tools
- Diagnosed production issues and mobile crashes using Glassbox session and root cause analysis
- Continuously improved system stability, reducing production incidents and enhancing user experience

## **Application Programmer - Bank of America Merrill Lynch | June 2017 – May 2021**

### ◎ **Key Contributions**

- Developed React-based enterprise applications using Redux for predictable state management
- Built reusable UI components improving development efficiency and consistency across applications
- Architected desktop applications using OpenFin, delivering secure, high-performance financial platforms
- Integrated backend services using Python for real-time financial data processing and visualization
- Optimized JS bundling using Node.js, Webpack, and SASS for faster load times and efficient asset delivery
- Implemented enterprise UI frameworks including Material UI and BlueprintJS to standardize design system

### ◎ **Project Highlights**

- Designed complex Redux-based state architecture for high-concurrency financial dashboards
- Championed Test-Driven Development (TDD) using Enzyme and Jest, improving code quality and reliability
- Built GraphQL-based data layers to support real-time analytics and dynamic visualization
- Developed high-performance utilities for processing large-scale XLSX datasets, improving analyst workflows