Shubham Naik

Full-Stack Software Engineer: React, Next.js, TypeScript and Rust

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SUMMARY

Software engineer with 10+ years of experience, including 6+ years of web development in TypeScript, React and Next.js and 3+ years building Rust microservices on Linux with Tokio. Has shipped full-stack Next.js applications using the App Router, Server Components and Server Actions with PostgreSQL. Background in native Android development (Kotlin, Java) on consumer apps at 1B+ to 10B+ Google Play download scale, which brings strong concurrency, performance and code-quality habits to backend and web work. Open-source contributor (NewPipe, FlorisBoard). Uses AI coding assistants (Claude Code, GitHub Copilot) with disciplined architectural review. Mentors junior developers.

EXPERIENCE

Senior Software Engineer | Raja Software Labs | Baner, Pune, India | 06/2018 – Present

Web and full-stack (since 09/2020)

- Develop web features with JavaScript, TypeScript, React and Next.js, including an internal dashboard built with Next.js and TypeScript.
- Build server-side functionality in Next.js: App Router, Server Components, Server Actions (including custom Server Actions that mutate data for specialized use cases), and a PostgreSQL database, including writing and optimizing queries and writing migrations.
- Integrate third-party and REST APIs, exchanging data as JSON.

Rust microservices and systems (since 09/2023)

- Work on a Rust microservices architecture running as Linux services, including a service for microcontroller device communication, an internet gateway service, services that pair and sync modules attached to the microcontroller, and a service registry that enables inter-service communication.
- Apply Tokio, multithreading and network programming in Rust services; use Embedded C++ and CMake to support embedded systems integration.
- Work with a Docker dev-container build setup: the image builds the application at an exact commit for the target release CPU architecture, is hosted on JFrog and is pulled by GitHub Actions to produce the final binary.

Native Android (client names confidential)

- Design, develop and maintain native Android applications in Kotlin and Java for large clients: a social networking app (1B+ Google Play downloads), an email app (10B+ downloads) and a legacy messaging app (1B+ downloads).
- Built messaging, profile and job posting features for the social networking app; contributed to migrating features from a discontinued chat application into the email app.
- Root-caused and fixed a lock contention between the main thread and a background thread that caused ANR errors in the legacy chat app, reducing overall ANR reports by an estimated 2–5%.
- Applied MVVM, MVP and MVI architectures; managed concurrency with Kotlin Coroutines, RxJava, ExecutorService and AsyncTask; worked with Jetpack Compose, SQLite, Realm and MySQL.

Engineering practices

- Maintain code quality through unit testing, integration testing and code reviews, using Git and CI/CD pipelines; collaborate with cross-functional teams to define, design and ship features.
- Use AI coding assistants (Claude Code, GitHub Copilot) for research-heavy investigation to increase throughput on feature work and peer reviews, followed by an architectural self-review for maintainability, testability, scalability and coding-standards compliance.
- Trained junior developers and contributed to team knowledge-sharing.

Android/iOS Developer | Genora Infotech | Verna, Goa, India | 08/2016 – 06/2018

- Designed and developed mobile applications for Android and iOS, translating UI/UX designs into efficient, reusable and scalable code.
- Implemented reactive programming with RxJava and RxSwift.
- Collaborated with the QA team to ensure application quality and fix bugs; mentored junior Android and iOS developers.
- Worked in an Agile environment with strict release cycles.

Android Developer Intern | LetsApp | Panaji, Goa, India | 01/2015 – 04/2015

- Built Android applications, including an Entry Register app using QR code scanning.
- Developed an XML parsing application.

OPEN SOURCE CONTRIBUTIONS

- **NewPipe** (Android): 8 merged pull requests (09/2023 – 03/2026), including introducing Jetpack Compose (#10875), completing the debug screen migration to Compose (#12803) and fixing the Android test GitHub Actions workflow (#11014).
- **FlorisBoard** (Android keyboard): implemented emoji suggestions with NlpManager integration (PR #2385, merged 04/2024).

SKILLS

Languages: TypeScript, JavaScript, Rust, Kotlin, Java, C/C++ (including Embedded C++), Python, Swift, Objective-C

Web and Frontend: React, Next.js (App Router, Server Components, Server Actions), TanStack Start, HTML, CSS, REST, JSON, XML, Django

Backend and Systems: Rust, Tokio, Microservices architecture, Multithreading, Network programming, Linux services, Embedded C++, CMake

Databases: PostgreSQL, MySQL, SQLite, Realm

DevOps and Tools: Docker, JFrog, GitHub Actions, CI/CD, Git, Linux (Arch Linux, Ubuntu, Mint), macOS, Windows

Mobile: Android SDK, Jetpack Compose, Kotlin Coroutines, RxJava, MVVM, MVP, MVI, iOS development

AI-assisted development: Claude Code, GitHub Copilot, opencode, Prompt engineering, Agentic workflows, MCP, LLM-as-judge

Methodologies: Agile, Code Reviews, Mentorship, Unit testing, Integration testing

EDUCATION

B.E. Computer Engineering | Goa College of Engineering | 2012 – 2016