

Ayush Kumar

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Skills

Technologies & Tools: Flutter, Android, React, React Native, Node.js, NestJS, REST APIs, PostgreSQL, TypeORM, GitHub Actions, Gradle, Fastlane, AWS CDK, Firebase, Mapbox, BLE, ML Kit, Hive, Jest, Flutter Test, BLoC, MVVM, Clean Architecture, Microservices

Work Experience

Creative Synergies Group, Bengaluru

May 2025 - Present

Software Engineer (Full Stack)

- Architected an enterprise FSM mobile app in **Flutter (Clean Architecture, BLoC)**, coordinating work orders and real-time technician workflows across Android and iOS with 95%+ crash-free sessions
- Implemented **NestJS** microservices with **TypeORM/PostgreSQL**, **JWT** auth, and role-based access (RBAC), scaling to 100+ field engineers and reducing API latency by 30%
- Built a native Android document scanner in **Kotlin** using **ML Kit**, Room, and Compose, automating PDF capture for compliance documents
- Established **CI/CD** with **GitHub Actions** and Gradle for multi-env (dev/stage/prod) pipelines; cut release time 50% for Android and iOS
- Drove **TDD** with **Jest** and **Flutter Test**, achieving 80%+ coverage across auth, work orders, documents, and inventory modules
- Integrated GPS and location services (geofencing, validation, location-based actions) with image capture and signature workflows for verified completion
- **Stack:** Flutter (Dart), Kotlin, NestJS, TypeScript, PostgreSQL, TypeORM, GitHub Actions, Gradle, Hive

HealthFlex, Bangalore

Mar 2024 - May 2025

Founding Engineer (SDE)

- Delivered two cross-platform **React Native** apps with a 95% crash-free rate, serving 1,000+ users across Android and iOS
- Engineered a **BLE** module with **TDD** (55+ unit tests), streaming 20 Hz per device via RxJS; improved stability and lowered latency by 40%
- Modularized ML algorithms via native module integration, processing 2,000+ datapoints/sec in-app
- Managed mobile releases with **Gradle + Fastlane** CI/CD, reducing release cycle time 40%; integrated **Firebase** (Analytics, Crashlytics, Performance)
- **Stack:** React Native, TypeScript, Kotlin, BLE, RxJS, Fastlane, Gradle, Firebase

EMotorad, Bangalore

Sep 2023 - Nov 2023

App Developer Intern

- Built an E-Bike rider assistant in **Flutter (MVVM, Clean Architecture, BLoC)**; integrated REST APIs and robust navigation
- Developed Bluetooth comms with Dart isolates/background services, improving connection stability 90% and reducing latency 40%
- Implemented Mapbox routing and rerouting with caching, cutting map costs 70%
- Achieved 80%+ unit test coverage with **Flutter Test**; optimized Gradle to reduce build times 25%
- **Stack:** Flutter (Dart), Mapbox, BLE, Firebase, Gradle, Dio/Retrofit

PySphere LLP

Nov 2021 - Sep 2023

Research Fellow

- Built **Carer Connect**, a responsive web app in **React/Next.js**, cutting manual vendor ops by 80%
- Drove engagement +35% via deep links, push notifications, and Google Calendar integrations
- Delivered a modern, responsive company website (Next.js, React, HTML/CSS, Figma), increasing web traffic 45%
- Contributed to **SonoFlux** (multi-tenant platform) with custom domains, OAuth 2.0, and Stripe/Razorpay integration; improved payment success 25%
- **Stack:** Java, React, Next.js, TypeScript, OAuth2, Stripe, Razorpay, Jest

Education

A.M.C. Engineering College (VTU), Bengaluru

2020 - 2024

B.E. in Computer Science and Engineering

CGPA: 7.96/10

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Web Technologies, Mobile Application Development, AI/ML

Project Work

- **String Calculator (TDD):** Dart implementation built with **TDD**; 13+ unit tests covering delimiter parsing, negatives handling, and edge cases. github.com/vancityAyush/string-calculator
- **Tomorrow Weather (Flutter):** Template showcasing **Clean Architecture** and SOLID principles with responsive UI and modular layers. github.com/vancityAyush/tomorrow_weather
- **Gourmet.Craft (Next.js/TypeScript):** Modern web app deployed on **Vercel**; demonstrates component patterns and frontend architecture. gourmet-craft.vercel.app

Awards and Certificates

- Google Associate Android Developer (Kotlin) — Google
- AWS Certified Developer – Associate — Amazon Web Services (AWS)
- Meta React Native Professional Certificate — Meta (Coursera)
- OpenJS Node.js Application Developer (JSNAD) — OpenJS Foundation
- EDB PostgreSQL Associate Certification — EnterpriseDB