

# Arush Shrivastava

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## EXPERIENCE

### Shink | Software Developer

April 2024 – Present (FTE since December 2024)

- Solely led the technical pivot from a dating to a social networking app, migrating the legacy codebase to React Native Expo and re-architecting the serverless backend (AWS) to support new gamification and reputation systems.
- Overcame React Native SDK limitations by developing custom Native Modules in Kotlin and Swift to integrate AWS Rekognition for secure user identity verification.
- Engineered a high-performance ranking system using Redis Z-Sets to handle geospatial queries and calculate global/local user percentiles in real-time, reducing data retrieval latency by 75%.
- Built a feature-parity React web application in just 25 days, and implemented cross-platform monetization pipelines using Google Play Subscriptions (Android) and Razorpay (Web) with automated receipt validation via AWS Lambda.
- Engineered a feature-rich real-time chat architecture using WebSockets and AWS SNS, enabling instant push notifications and advanced user interactions such as message reactions, editing, and deletion.
- Established a comprehensive Trust & Safety ecosystem by implementing user flagging with context comments, content reporting workflows, account pause/deletion capabilities, and a temporary ban system to maintain platform integrity.
- Resolved AWS services like Lambda, S3, DynamoDB and many more to build and deploy a completely serverless infrastructure, optimizing scalability and cost, resulting in a 20% more efficient backend calls.
- Facilitated React Native/ReactJS, HTML/CSS, JavaScript, Python, Node, AWS, Firebase, NoSQL, and XCode to build a 100% cross platform application.

## PROJECTS

### Standby-Droid | React Native, Kotlin, Android APIs, System Events

- Built an Android dock-style dashboard app inspired by iOS StandBy mode, enabling users to create movable and resizable information widgets.
- Designed an extensible “Face Controller” architecture separating business logic from UI skins, enabling contributors to add new visual styles without modifying core logic.
- Added OLED burn-in protection using a drift algorithm to subtly reposition UI elements during long idle sessions.
- Built automation to detect charging events and auto-launch the app while restoring the last saved layout state.
- Enabled advanced customization including per-view fonts, adjustable brightness, and timed color randomization.
- Repository: <https://github.com/arush-shri/standByDroid>

### Marg Rakshak | Dart, Node, Express, MongoDB, Firebase, Google Maps, OpenWeather API

- Developed real-time danger alert navigation mobile app prioritizing road safety, increasing driver attention by 100%.
- Integrated live location sharing, roadside assistance, and weather notifications, enhancing driver awareness by 15%.
- Implemented push notification system for emergency alerts and weather warnings, increasing user response time to critical situations by 40%.
- Optimized server performance by 30% through concurrency control and caching, achieving 50% faster geospatial query execution.
- Implemented intuitive UI resulting in 15% higher user satisfaction and 25% fewer complaints.
- Repository: <https://github.com/arush-shri/margRakshakFullStack/>

### BaatCheet | Kotlin, Jetpack Compose, Firebase, NoSQL, RSA Cryptography

- Built privacy-first Android messaging app with end-to-end RSA encryption, driving 30% increase in user engagement.
- Designed secure Firebase authentication achieving 99% user satisfaction rate for account security.
- Implemented real-time chat with database listeners and optimized Firebase data management, reducing load times by 30%.
- Architected scalable message threading system supporting group chats up to 10 users while maintaining end-to-end encryption integrity.
- Link: <https://github.com/arush-shri/baatchet/>

## SKILLS SUMMARY

**Backend:** Python, Node.js, JavaScript, C++

**Mobile:** Flutter, Dart, React Native, Kotlin

**Cloud&DevOps:** AWS (Lambda, S3, DynamoDB, Cognito, SNS, AppSync, End user messaging, API Gateway, ElastiCache), GCP(BigQuery, Analytics, Gemini

**Databases:** PostgreSQL, MySQL, MongoDB, SQLite, DynamoDB

## EDUCATION

### Vellore Institute of Technology

Bachelor of Technology in Computer Science Engineering; CGPA: 8.34

Bhopal, MP, India

August 2021 - May 2025

**Relevant Coursework:** Object Oriented Programming, Databases, Linux, Data Structures and Algorithms, Operating Systems, Computer Networks, Software Development, Software Testing, Security Analyst, Computer Architecture, Ethical Hacking.