

# Shivananda Bharathi K

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## EDUCATION

### Alliance University

Bachelor of Technology in Computer Science and Engineering

Bengaluru, India

2021 – 2025

## TECHNICAL SKILLS

**Languages** : Python, C++, JavaScript, Typescript.

**Frontend** : React.JS, ReactNative, Redux Toolkit, Tailwind CSS.

**Backend** : Node.js, Express.js, REST APIs, Microservices architecture, AWS, JWT Auth, JSON.

**Databases** : Redis, MySQL, PostgreSQL, MongoDB, SQLite, RealmDB.

**Devops / Tools** : Git, GitHub, CI/CD, Docker, Linux, Postman.

## EXPERIENCE

### Mobile App Developer Intern

Anugraha Exceed Pvt Ltd

Oct 2024 – March 2025

Bengaluru, KA

- Developed & optimized mobile features using **React Native** with **Typescript**, improving app reliability & reducing crash points through structured state management
- Implemented Offline functionality using **RealmDB**, enabling consistent data during no network connection.
- Built modular UI components and integrated **REST APIs** with error-tolerant request handling.
- Improved state consistency by structuring **Redux** logic and stabilizing updates across screens.
- Applied debugging, log tracing & performance profiling to fix root-cause issues and stabilize app flow.
- Managed version control across releases using **Git**, ensuring consistent delivery in **agile sprints** environment.

## PROJECTS

### API - Gateway — Node.js, Express.js, Redis, Docker, JWT.

[\[Repo\]](#)

- Built an production style API gateway with **JWT Authentication** , **Redis** backed rate-limiting and circuit breaker logic to handle numerous request/min.
- Implemented **Node.js** microservices gateway with the tiered rate limits, centered policy enforcement, and uptime monitoring.
- Containerized the gateway using **Docker**, integrated health probes and autoscaling readiness for Kubernetes deployments.
- Developed metrics endpoints for request tracing , circuit breaker states, and real time operational visibility.

### NetRecon — Python, Network Scanner, Scapy

[\[Repo\]](#)

- Built a network tool using **Python** to enumerate active hosts and detect open ports.
- Implemented **ICMP, ARP & TCP-SYN** scanning workflows to map network surfaces and identify reachable services.
- Added packet level inspection using **Scapy** to capture, parse and analyze response behavior.
- Designed flexible modules to extend scanning logic automate repeated assessments & support security investigation tasks.

### GuardVault — React Native, Typescript, AES encryption, Redux, Expo.

[\[Repo\]](#)

- Built a secure offline first password manager using **React Native (Expo)**, storing encrypted credentials.
- Integrated **AES encryption** and **biometric authentication** to enforce strong security and user privacy.
- Implemented encrypted local storage using **SQLite** and ensured safe state transitions with **Redux**.
- Designed modular components to maintain structured CRUD operations with validations, error handling and optimized storage access along with a clean UI.

## COURSEWORK

**Relevant Coursework** : DSA, OOP, Operating system, Computer Network, Information security.