

GOKUL YADHAVA G

☎ +91 9740117597 | ✉ gokulyadhavag@gmail.com | 🔗 linkedin.com/in/gokul-yadav-g | 🌐 yadav036.github.io

EDUCATION

Dayananda Sagar Academy of Technology and Management

Bachelor of Engineering in Information Science & Engineering

GPA: 8.55 | Courses: OS, AI, Full Stack, Cryptography

Bengaluru, Karnataka

Aug.2022 -Present

Christ Junior College

Pre-University Education

Percentage: 96.6% | PCM with Computer Science

Bengaluru, Karnataka

June 2020 – July 2022

EXPERIENCE

Cryptographic Solutions Intern

Bharat Electronics Limited (BEL) - Product Development & Innovation Department
Karnataka

Aug. 2024 · Dec. 2024

Bengaluru,

- Implemented and wrote functional code for **end-to-end encryption** in BEL's internal communication app
- Researched and studied **Signal protocol** by analyzing WhatsApp's security design and technical papers.
- Prototyped digital identity systems with **Aadhaar eSign** workflows and **WebAuthn** authentication.

PROJECTS

BeThere - Real-time Location Sharing Platform

Oct. 2024 · Present 🔗

- Built **WebSocket-based** engine with **sub-second updates** for seamless coordination during live events.
- Integrated **Google Maps API** with autocomplete, routing, and dynamic custom markers.
- Released a **consumer-ready app** with polished UI/UX, including toast notifications and interactive overlays.

Tech Stack: React TypeScript, Node.js/Express, WebSocket, PostgreSQL, Google Maps API, Tailwind CSS

SAFe Agile Automation with Generative AI

Oct. 2024 · Dec. 2024 🔗

- Built **asynchronous FastAPI** service linking **Jira REST API** with GPT models for intelligent sprint planning.
- Leveraged **spaCy NLP** to recommend developers for tasks based on prior work and user stories, improving prioritization with 95% accuracy and loosely estimated to speed up rollout by 37%.

Tech Stack: FastAPI, Python, spaCy NLP, OpenAI GPT-4, Jira API, scikit-learn, PostgreSQL

Cryptographic Promise Share with WebAuthn

Jan. 2025 · Present 🔗

- Implemented **WebAuthn API** not just for login, but to trigger digital promise signing similar to **Aadhaar eSign**.
- Developed tamper-evident signature system with **PKI**, ensuring non-repudiation and audit compliance.
- Executed a unique WebAuthn use-case to trigger eSign-like promise signing.

Tech Stack: WebAuthn API, React TypeScript, Node.js/Express, Prisma ORM, PostgreSQL, OpenSSL

TECHNICAL SKILLS

Programming: Python, JavaScript, TypeScript, Java, C++

Frontend: React.js, Next.js, TypeScript, Tailwind CSS, shadcn/ui

Backend & APIs: Node.js, Express.js, FastAPI, REST, WebSocket

Databases: PostgreSQL, MySQL, MongoDB, Redis, Prisma ORM

DevOps & Cloud: Git, Docker, Kubernetes, CI/CD, AWS, Linux, Prometheus, NewRelic, GitOps, ArgoCD