

Guru Krithick M

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EDUCATION

Chennai Institute of Technology

B.E – Electronics and Communication Engineering

2023 – 2027

Chennai, India

EXPERIENCE

Hathor Union

Software Development Engineer Intern

Mar 2025 – Aug 2025

Remote

- Engineered a cross-platform full-stack data analytics platform using React Native, Micronaut, and RemixJS, operating across mobile and web from a unified codebase.
- Designed scalable RESTful APIs with optimized PostgreSQL indexing, reducing large-file management time by 60% through a re-designed, intuitive UI.
- Owned the full development lifecycle from API design to production deployment, ensuring consistent behavior and performance across all surfaces.

DNYX

Full Stack Engineer

Jul 2024 – Sep 2024

Remote

- Delivered full-stack features across React frontends and Node.js backends, handling UI, REST API development, and database integration end-to-end.
- Collaborated with cross-functional teams to translate product requirements into production-ready features under tight delivery timelines.

PROJECTS

CipherBridge | ESP32, Raspberry Pi 4, Python, Flask, Docker, Redis, TensorFlow, MQTT

Apr 2026

- Architected a three-tier IoT security framework (ESP32 edge node → Raspberry Pi 4 gateway → cloud backend) securing industrial SCADA telemetry with end-to-end encryption and under 50 ms real-time latency.
- Engineered a stateful authentication layer with automatic credential revocation and cryptographic replay-attack prevention, validated against six attack categories including man-in-the-middle, DDoS, and sensor spoofing on an isolated private testbed.
- Built a dual-model AI anomaly detection engine — detecting unauthorized network traffic (>88% accuracy) and tampered sensor data (>91% accuracy) inline, with system throughput exceeding 10,000 messages/sec.

CP Dashboard | FastAPI, Next.js, PostgreSQL, Python, TanStack Table, Tailwind CSS

2025

- Built a web platform for colleges to track competitive programming performance across LeetCode, CodeForces, and CodeChef — results stream live row-by-row to a sortable, filterable leaderboard.
- Developed 3 independent FastAPI services sharing a cloud PostgreSQL database, with auto-resume on browser reconnect and fuzzy CSV header matching for inconsistent real-world college data exports.
- Handled messy real-world college CSV exports using fuzzy header matching, ensuring uploads succeed regardless of column naming inconsistencies across institutions.

Dataplexer | Kotlin, React Native, SQLite, MongoDB, Google Cloud

2024

- Built a cross-platform data analysis app supporting import, querying, and export of CSV, Excel, and structured documents with 100% extraction accuracy across varied encodings and schema formats.
- Designed a no-code query builder with Excel-style filtering, and unified relational (SQLite) and document (MongoDB) databases under one interface — deployable locally or on Google Cloud.
- Implemented a mobile-first interface using React Native, delivering a consistent data exploration experience across Android and iOS without maintaining separate codebases.
- Architected a flexible deployment model supporting both local environments and remote Google Cloud servers, allowing the platform to scale across different infrastructure setups without code changes.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, Kotlin, SQL, C

Frontend: React, Next.js, Tailwind CSS, React Native, RemixJS

Backend: Node.js, FastAPI, Flask, Micronaut

Databases: PostgreSQL, MongoDB, SQLite, Firebase, Redis

Hardware & Embedded: ESP32 (ESP-IDF), Raspberry Pi, FreeRTOS, MQTT, AES hardware acceleration

Tools & Platforms: Git, GitHub, Docker, Kubernetes, Google Cloud, Linux, VS Code, Vim, Wireshark

CERTIFICATIONS

Introduction to Cyber Security – CISCO • Cyber Security Essentials – CISCO • Networking Essentials – CISCO • Introduction to C – CISCO • Energy Literacy Training – Energy Swaraj Foundation