

Devathmaj A Kaliyathan

Kerala, India

LinkedIn: [linkedin.com/in/devathmaj](https://www.linkedin.com/in/devathmaj)

GitHub: github.com/devathmaj

Portfolio: devathmaj.me

Email: devathmaj@gmail.com

SUMMARY

Software developer with hands-on experience building Python/FastAPI REST APIs, PostgreSQL-backed applications, and AI-powered services on Azure. Worked on authentication, database design, and Docker deployments.

EDUCATION

- **St. Thomas College of Engineering & Technology** Mattanur
B.Tech in Computer Science **CGPA: 8.18** Oct 2022 – Apr 2026
 - **Relevant coursework:** Data Structures & Algorithms, Operating Systems, Database Management Systems, Computer Networks, Management of Software Systems, OOP

CERTIFICATIONS

- **Microsoft Certified: Azure AI Cloud Developer Associate**
- **AWS Certified AI Practitioner**

EXPERIENCE

- **Kannur Vision - Freelance Full-Stack Developer** Apr 2026 – Aug 2026
React.js, FastAPI, Python, MySQL, Docker, JWT, RBAC, Prometheus, Grafana, Nginx, Linux
 - Reduced manual operational workload through the design and architecture of a full-stack **Distribution Management System**.
 - Prevented device loss caused by untracked inventory by implementing real-time distribution and returns tracking backed by complete audit logging.
 - Delivered secure, audit-ready workflows spanning **8 hierarchical roles** through an RBAC system built around a **55+ entry permission matrix**.
 - Simplified inventory, defect, and returns tracking across **7 entity domains** by creating **21 database tables** supported by an idempotent migration system.
- **Kerala Vision Broadband Limited - DevOps Intern** May 2025 – Jun 2025
React.js, FastAPI, Python, MongoDB, Docker, Netmiko, Rclone, SSH, JWT, RBAC, REST APIs, Linux
 - Created an internal **network backup management platform** that automates device log backups, backup scheduling, config management, and log comparison, cutting manual network administration effort by **80%**.
 - Engineered a secure backup workflow on SSH jump-host architecture, RBAC, and JWT authentication to control access to network devices, while automating log archival to Google Drive with rclone.
 - Implemented Python automation with Netmiko for remote device backups, added WhatsApp notifications for backup success and failure alerts, and deployed the application with Docker on Linux servers.

PROJECTS

- **ConfessIt - Anonymous Social, Gaming & Matchmaking Platform** [Codebase](#)
Python, FastAPI, PostgreSQL, pgvector, Redis, React, Docker, Azure Container Apps, Key Vault, Content Safety
 - Built a full-stack **anonymous confession, matchmaking and games platform** with magic-link + JWT auth, rotating refresh tokens and server-enforced role-based access control.
 - Implemented **hybrid semantic search** combining **pg_trgm** keyword matching with **text-embedding-3-small** embeddings in **pgvector** (HNSW, cosine similarity), with graceful keyword fallback.
 - Engineered encrypted **real-time chat** with WebSockets and Redis Pub/Sub, AES-256-GCM at rest and single-use socket tickets.
 - Built a platform of **9 games**, including AI-generated story modes via a queue-driven LLM worker with retries and Pydantic-validated JSON output, plus a cron scheduler and leaderboards.
 - Deployed on **Azure Container Apps** with **Key Vault** for secrets, and protected anonymity with **Azure Content Safety** moderation and **PII redaction** (Azure AI Language) ahead of human review.
- **VoucherBot - Automated Deal Discovery & Notification System** ★ 18 on GitHub [Live Site](#) | [Codebase](#)
Python, FastAPI, PostgreSQL, SQLAlchemy, Docker, Supabase, Cloudflare Pages
 - Built an async FastAPI + PostgreSQL service monitoring **30+ sources** (Reddit, RSS, web pages) via a DB-driven scheduler with exponential backoff, keyword scoring and deduplication.
 - Built an **AI extraction pipeline** (Groq with Gemini fallback) that pulls vendor, code, discount and dates, matches posts to canonical events and sends alerts via a transactional outbox.
 - Delivered a Discord/Telegram notification service with idempotent webhook delivery and a web frontend on Cloudflare Pages and Supabase; open-sourced.

TECHNICAL SKILLS

- **Languages:** Python, SQL, C, TypeScript / JavaScript
- **Backend & APIs:** FastAPI, Flask, REST APIs, JWT, RBAC
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Cloud & DevOps:** Azure, Docker, AWS, GitHub Actions, Nginx
- **Observability:** OpenTelemetry, Prometheus, Grafana, Loki
- **Automation & Testing:** Pytest, Unit & Integration Testing, Selenium