

Muhamed Adil Edavana Valappil

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SUMMARY

Full-stack Software Engineer with experience in building scalable web applications and AI solutions using **Node.js**, **React**, **Express.js**, **FastAPI**, and **Golang**. Skilled in microservices, REST APIs, Docker, and CI/CD. Currently based in the UAE with a **valid residency visa and Emirates ID**, available for immediate on-site opportunities.

EXPERIENCE

Software Developer <i>Greentruth Technology</i>	Aug 2025 – Present Dubai, UAE
<ul style="list-style-type: none">Developed full-stack applications using Python, and JavaScript, building web interfaces with React and backend APIs with FastAPI/gRPC for secure transaction management.Built interactive chatbots and API clients for distributed systems, handling real-time operations, authentication, and data processing.Implemented simulations for consensus algorithms and transaction validation scripts, integrating databases and cryptographic libraries.Collaborated on distributed ledger prototypes, improving fault tolerance and system scalability.	
Software Engineer <i>Cooee (Remote, Australia-based)</i>	Jan 2025 – Present
<ul style="list-style-type: none">Designed and deployed an automated stakeholder alert system triggered on new customer registrations, supporting platform scalability toward a 100K+ user base.Resolved high-priority production bugs impacting performance for 1,000+ users, significantly improving application stability.Reduced post-registration email delivery time by 90% by optimizing the email automation pipeline.Developed and maintained scalable microservices in Golang and Python using RESTful APIs, RabbitMQ, and async I/O (e.g., <code>asyncio</code>).Integrated JWT-based authentication and OAuth for secure API access in user services.Optimized PostgreSQL queries and schema migrations using SQLAlchemy, reducing response times by 40%.Implemented a transactional number swap API with full audit logging and admin controls, supporting encryption and secure validation workflows.	
Software Engineer Intern – GenAI Edge Deployment <i>Intel Corporation</i>	May 2024 – July 2024 Bangalore, India
<ul style="list-style-type: none">Developed and deployed a large language model (LLM) chatbot pipeline on Intel CPUs, leveraging OpenVINO™ for model optimization and accelerated inference.Automated conversion, quantization, and deployment of LLMs for efficient GenAI applications on consumer edge hardware.Built a customizable Gradio web UI enabling real-time interactions with LLMs and configurable inference parameters.Demonstrated expertise in LLM fine-tuning, pipeline automation, and low-latency deployment of advanced models.Integrated model lifecycle processes into CI/CD using GitHub Actions and optimized inference workflows.	
Data Analyst Intern <i>Al Wafaa Group</i>	Aug 2023 – Sept 2023 Dubai, UAE
<ul style="list-style-type: none">Built an automated ETL pipeline to analyze 3,000+ customer records, enabling upselling and retention insights.Automated lead qualification and CRM workflows using Python, reducing manual effort by 70%.Designed real-time interactive dashboards using IBM Cognos and Python, optimizing marketing data transformation.	
Research Intern <i>National Chung Cheng University</i>	Jul 2024 – Sep 2024 Taiwan
<ul style="list-style-type: none">Developed software pipelines for processing and analyzing hyperspectral imaging (HSI) data using Python and ML frameworks.	

- Applied best practices for data integrity and reproducibility while managing imaging datasets and experimental workflows.
- Reviewed and synthesized findings from **peer-reviewed AI/ML research** in agriculture, environment, and mining.
- Enhanced skills in **data preprocessing, model training**, and technical documentation for publication.

PROJECTS

QuickEval – AI Answer Sheet Evaluator (GitHub)

- Built full-stack web app with **React.js**, **Node.js**, and **MongoDB** to automate exam grading.
- Integrated **OpenAI API** for scoring, feedback, and analytics reports with confidence metrics.

Crashchain – Digital Forensics Platform (GitHub)

- Engineered microservices backend using **FastAPI**, **RabbitMQ**, and **Docker Compose** to manage forensic data.
- Implemented authentication with **JWT** and secured APIs behind API Gateway proxies.
- Utilized **PostgreSQL + SQLAlchemy ORM** to persist and query data efficiently.

FoodBot – LLM-based WhatsApp Chatbot (GitHub)

- Developed chatbot with **FastAPI**, **asyncio**, and **RabbitMQ** for concurrent message processing.
- Implemented Docker-based, scalable deployment with error logging and CI/CD hooks.

World Economic Data Platform (GitHub)

- Built dashboards with **IBM Cognos** and synced **Flask REST APIs** to fetch and visualize macroeconomic indicators.

LedgerTrue – Anomaly Detection Dashboard (GitHub)

- Developed backend with **FastAPI** and integrated CI/CD for auto-deployment using GitHub Actions.
- Enabled **JWT-based** secure login and role-based access control.
- Used **ORM (SQLAlchemy)** to manage data and handle transactional uploads.

TECHNICAL SKILLS

Languages: Python, Go, JavaScript, SQL, C, Shell

Frameworks: FastAPI, Flask, Node.js, React.js, Next.js

Database & ORM: PostgreSQL, MongoDB, SQLAlchemy, Django ORM

DevOps: Docker, Docker Compose, GitHub Actions, CI/CD, Linux CLI, Git, Kafka, RabbitMQ, Pub/Sub

Security & API Mgmt: OAuth2, JWT, API Gateway, HTTPS, Rate Limiting

Cloud: AWS (Elastic Beanstalk, WAF, Shield, CodePipeline)

Tools: IBM Cognos, OpenVINO, Jupyter, VSCode

EDUCATION

Saintgits College of Engineering

2021 – 2025

Bachelor of Technology, Computer Science and Engineering

Kerala, India

ACHIEVEMENTS

Winner – Yukthi 2024 Hackathon (GPT automation bot)

Runner-up – FrostCode Hackathon (chatbot development)

Top 4 Finalist – EY CTF Challenge (Cybersecurity + ML)

Research Internship – Fully funded at CCU Taiwan; published 2 review papers on ML and AI in HSI