ATHUL MENON P

[My Portfolio](#) | [LinkedIn](#) | [GitHub](#)

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PROFESSIONAL SUMMARY

Software Developer with experience building full-stack and AI-driven applications using Python and JavaScript. Hands-on work in enterprise backend modernization and development of agentic AI systems using OpenAI Agents SDK, CrewAI, and LangGraph for real-world applications.

EDUCATION

Bachelor of Technology, Computer Science and Engineering   August 2024

Vidya Academy of Science and Technology, Thrissur

CGPA - 7.81

SKILLS

- **Languages:** Python, Java, JavaScript
- **Backend:** Node.js, Express.js, REST APIs
- **Frontend:** React.js
- **AI/ML:** OpenCV, TensorFlow, PyTorch, CNNs, Agentic AI (OpenAI Agents SDK, CrewAI, LangGraph)
- **Databases:** MongoDB, MySQL, PostgreSQL, IBM DB2
- **Cloud & DevOps:** Google Cloud Platform, CI/CD
- **Tools:** Git, GitHub

WORK EXPERIENCE

Software Developer : 1, UST, Trivandrum
December 2024 – Present

- Reverse-engineered legacy backend systems to extract business logic and document workflows supporting cloud migration initiatives
- Analyzed monolithic applications to identify dependencies and control flows, reducing rework during migration by approximately 40%
- Produced structured technical documentation to improve onboarding and support cloud-native redesign
- Collaborated with cross-functional teams to standardize backend components aligned with modern software architecture principles

PROJECTS

DragonSense: AI-Driven Natural Language Query System

- Tech Stack: Python, Flask, Generative AI, Langchain, MySQL
- Collaborated with a team and developed an AI-powered web interface enabling natural language SQL querying via voice and text
- Deployed backend services using Flask; optimized database interactions via MySQL.
- Built an intuitive UI with HTML, Bootstrap, and jQuery for seamless user interaction

Career_Conversation: AI-Powered Interactive Resume Agent

- Tech Stack: Python, Gradio, Gemini (via OpenAI-compatible endpoints), Hugging Face Spaces, Pushover
- Developed a conversational AI agent that functions as an interactive resume for real-time career and project discussions about myself
- Integrated Gemini LLM through OpenAI-compatible endpoint APIs to enable a modular, model-agnostic system architecture
- Implemented Pushover notifications for instant alerts on user contact requests and fallback unanswered queries
- Deployed a 24/7 publicly accessible AI agent on Hugging Face Spaces using Gradio for continuous availability

HTML Code Generation from Hand-drawn Images Using Machine Learning Techniques

- Tech Stack: TensorFlow, OpenCV, NumPy
- Developed a deep learning model to convert hand-drawn mock-ups into HTML using Python
- Implemented deep learning models using TensorFlow and NumPy for feature extraction and code generation
- Applied CNN-based feature extraction for sketch recognition and translation.

Prism - Chat Application: Real-Time Messaging

- Tech Stack: React, Node.js, Express.js, MongoDB, Socket.io, Zustand, Tailwind CSS, DaisyUI, JWT
- Designed and developed a full-stack chat application enabling real-time, bidirectional communication between users
- Implemented secure authentication and authorization using JWT, ensuring data privacy and controlled access
- Integrated Socket.io to deliver instant messaging, online status visibility, and smooth synchronization across sessions
- Managed global state efficiently with Zustand, improving responsiveness and scalability
- Built a modern, responsive UI using Tailwind CSS and DaisyUI to provide an engaging and consistent user experience

CERTIFICATIONS

Cloud Digital Leader(GCP), Google — April 2025
Course completion certificate from Google

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional, Oracle — October 2025
Certification by Oracle

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate, Oracle — October 2025
Certification by Oracle

The AI Engineer Agentic Track: The Complete Agent & MCP Course, Udemy — November 2025
Course completion certificate from Udemy