

Arun Kumar Durgollu

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LinkedIn — GitHub — Portfolio

Professional Summary

Computer Science undergraduate focused on Agentic AI Engineering and Full Stack Development. Experienced in building AI-powered web applications using MERN Stack, Next.js, LangChain, LangGraph, and LLM APIs. Skilled in developing AI agents, RAG workflows, multi-agent systems, API integrations, and scalable cloud-ready applications with strong software engineering fundamentals.

Technical Skills

Languages: JavaScript, Python, Java

Frontend Development: React.js, Next.js, HTML5, CSS3, Tailwind CSS

Backend Development: Node.js, Express.js, REST APIs, API Integration, Authentication

Databases: MongoDB, PostgreSQL, Vector Database Fundamentals

Agentic AI & LLMs: LangChain, LangGraph, CrewAI, LangSmith, AI Agents, Multi-Agent Systems, RAG, Prompt Engineering

AI Integration: OpenAI APIs, LLM Applications, Agent Workflows, AI Automation, Function Calling

Cloud & DevOps: AWS EC2, S3, Lambda, Docker, Git, GitHub, CI/CD Fundamentals

Tools: Clerk, Stripe, Postman, Sentry

Problem Solving: 100+ DSA Problems, Data Structures, Algorithms

Experience

AI Full Stack Developer Intern

Feb 2025 – Mar 2025

ArchakaOnline

- Developed 10+ scalable React.js components improving application usability and performance.
- Implemented secure authentication and RBAC workflows supporting 3 different user roles.
- Integrated APIs and optimized backend communication, improving response time by 30%.
- Debugged and resolved 20+ application issues improving system stability.
- Collaborated using Git/GitHub workflows following software engineering practices.

Projects

TekyTalk – AI Voice Learning Platform

May 2025 – Jul 2025

- Built an AI-powered SaaS platform using Next.js with conversational AI capabilities.
- Integrated Deepgram STT and ElevenLabs TTS APIs enabling real-time AI voice interactions.
- Implemented authentication, subscriptions, user sessions, and production monitoring.
- Designed scalable architecture for AI-based learning workflows.

Agentic AI Workflow System

- Developed autonomous AI agent workflows using LangChain and LangGraph.
- Built multi-agent collaboration pipelines using CrewAI for task automation.
- Implemented agent tracing, debugging, and monitoring workflows using LangSmith.
- Designed RAG-based information retrieval pipelines with LLM integration.

Hackathons

NIT Warangal Hackathon (2024): Built AI chatbot using React, Python, and OpenAI APIs.

NASA Space Apps Challenge (2024): Developed interactive web application using JavaScript and 3D technologies.

Education

B.Tech in Computer Science and Engineering

2023 – Present

Vaagdevi College of Engineering

CGPA: 8.35/10