

Paul Pandiyan K

Software Engineer, Lightcast

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LinkedIn — GitHub — LeetCode

Profile

Software Engineer with 1.9 years of experience in backend, DevOps, and AI-integrated systems. Proven expertise in Docker, Kubernetes, Terraform, Python, and AWS. Adept at building scalable systems, developing CI/CD pipelines, and solving algorithmic problems.

Education

Government College of Engineering, Erode

B.E. in Computer Science and Engineering, CGPA: 8.3

Nov 2020 – June 2024

Experience

Software Engineer

Lightcast, Dharmapuri

Jan 2024 – Present

- Developed production-grade backend services using Python, reducing data processing time by 35%.
- Automated AWS infrastructure provisioning via Terraform; reduced deployment time by 40%.
- Integrated OpenAI API for document analysis, cutting manual validation workload by 50%.
- Built robust CI/CD pipelines using GitLab, decreasing release cycle time by 30%.
- Deployed containerized microservices with Docker and Kubernetes (Minikube), ensuring scalable testing environments.
- Led debugging and optimization of platform build/test systems; improved operational stability.

Skills

DevOps/Cloud: AWS, Docker, Kubernetes, Terraform, GitLab CI/CD

Frontend: React.js, Jest, Cypress

Backend/Tools: REST APIs, OpenAI APIs, ChromaDB, Hugging Face, Postman

Programming: Python, Java, SQL

Platforms: Linux, GitLab, Agile/Scrum

Core CS: Data Structures, Algorithms, System Design, Problem Solving, OOP

Projects

RAGnarok Chatbot

Python, Streamlit, HuggingFace, ChromaDB
AI chatbot to answer internal queries using Retrieval-Augmented Generation (RAG).

- Built a vector-search pipeline with ChromaDB and integrated Mistral-7B LLM for response generation.
- Reduced repetitive internal queries by 60% by surfacing contextual document-backed answers.
- Deployed Streamlit-based UI with query history, improving accessibility across teams.

Cloud-native Deployment System

Docker, Kubernetes, Terraform, AWS
CI/CD pipeline setup and infrastructure provisioning.

- Automated infrastructure creation using Terraform scripts on AWS.
- Deployed Dockerized apps to Kubernetes (Minikube), simulating scalable environments.
- Enabled zero-touch deployments via GitLab CI/CD.

Crypto Price Tracker

React.js, CoinGecko API
Frontend application to track real-time cryptocurrency prices.

- Built an interactive UI for live price monitoring using React.js.
- Integrated external API to show price trends and improve user decision-making.

Certifications

- Cloud Computing on AWS — Udemy
- Docker for Beginners — Udemy
- Kubernetes Fundamentals — Udemy
- AWS Certified Cloud Practitioner — Planned

Dec 2024

May 2024

May 2024

Oct 2025

Competitive Programming

- Solved 300+ DSA problems on LeetCode
- Achieved a 100-day problem-solving streak on LeetCode

Feb 2023 – Present

Jan 2024 – Apr 2024.