

PAVANDEEP B

Software Developer (Full-Stack) | AI & Cloud Enthusiast |

React • FastAPI • MongoDB

PROFESSIONAL SUMMARY

Results-driven Software Developer with expertise in full-stack development, AI integration, and cloud technologies. Proficient in React.js, FastAPI, and MongoDB with hands-on experience building AI-powered applications. Demonstrated ability to integrate machine learning APIs, develop REST services, and deploy scalable web applications. Strong foundation in prompt engineering and generative AI applications with AWS certifications in Amazon Bedrock and cloud services.

WORK EXPERIENCE:

Full-Stack Developer (Capstone Project)

AgriAssist – AI-Based Plant Disease Detection System Jan 2025 – Present

- Designing and developing full-stack web application that analyzes plant images and generates AI-powered disease predictions
- Integrated OpenAI GPT and Google Vision APIs to deliver comprehensive natural language summaries based on plant health conditions
- Managing complete development lifecycle including frontend UI (React) and backend APIs (FastAPI) with MongoDB integration
- Currently debugging and refining image upload workflows and response generation systems for enhanced reliability
- Implemented secure environment variable handling protocols for API keys and successfully deployed initial versions on Vercel

RELEVANT PROJECTS:

E-Commerce UI Clone

React.js, Tailwind CSS, JSON Server

- Developed a frontend clone of an e-commerce platform with product filters and cart features.
- Used JSON Server to mock backend API responses for UI testing.

Portfolio Website

Tech Stack: React.js, Tailwind CSS, GitHub Pages

- Designed and deployed a personal portfolio website to showcase projects and skills.
- Implemented responsive design with Tailwind CSS and deployed using GitHub Pages. use this and

EDUCATION:

2022 – 2026 | Visvesvaraya Technological University

Bachelor of Information Science – Software Engineering

CERTIFICATIONS

Amazon Web Services (AWS)

- Amazon Bedrock: Getting Started
- Amazon Simple Storage Service (S3)
- Amazon Bedrock: Prompt Engineering
- Generative AI for Beginners

IBM via Cognitive Class

- Python for Data Science (PYO101EN)
- Machine Learning with Python (MLO101EN)

Microsoft

- Power BI Certificate
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