

VENKATESH SURAVARAPU

Software Engineer | GenAI Engineer | Backend & Full-Stack Developer

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PROFESSIONAL SUMMARY

Software Engineer with hands-on experience building and maintaining production applications, backend services, and full-stack platforms. Skilled in **Python, FastAPI, React, LangChain, Langfuse, RAG, Hybrid RAG, agentic workflows, AWS Bedrock, PostgreSQL, Redis, Docker, AWS, Terraform, and GitHub Actions**, with strong grounding in AI application architecture, API development, cloud infrastructure, CI/CD, observability, and automated testing. Independently designed, built, and continue to maintain **Growman**, a live plant-commerce platform combining AI-powered plant identification, an AI plant-care assistant, and e-commerce.

PROFESSIONAL EXPERIENCE

Software Engineer | Fynd Me

Aug 2025 - Sep 2026 | NY (Remote)

- Build and maintain **Fynd Me**, a web platform for creating and sharing customizable digital portfolios for personal, corporate, and academic use.
- Design GenAI powered features using **Python, FastAPI, LangChain, AWS Bedrock**, RAG, Hybrid RAG, and agentic workflows.
- Build scalable backend services and REST APIs in **Python/FastAPI**, backed by **PostgreSQL and Redis**.
- Develop responsive interfaces in **React, JavaScript, HTML, and CSS**, integrating frontend, backend, and AI services.
- Containerize services with **Docker** and run **GitHub Actions** CI/CD pipelines for automated testing, builds, and deployments.
- Deploy and manage infrastructure on **AWS EC2 and ECS**, provisioned with **Terraform**.
- Set up production observability with **Prometheus and Grafana**, including dashboards, metrics, and alerting.
- Own automated testing (unit, API, and **Playwright** end-to-end) to ensure reliable releases.
- Participated in code reviews, PR reviews, and technical discussions, and keep feature delivery on schedule.

INDEPENDENT PROJECTS

Developer | Growman — Plant Commerce & AI Platform

2024 - Present | Live & Actively Maintained

- Designed, built, deployed, and maintain a production plant-commerce platform combining e-commerce, AI-powered plant identification, plant-health assistance, and smart plant-care tools.
- Built backend services covering authentication, product management, orders, payments, invoicing, notifications, and user plant collections.
- Designed data and caching infrastructure with **PostgreSQL and Redis** for persistence, caching, rate limiting, and performance.
- Integrated **Razorpay** for payments and built transactional workflows for payments, invoicing, and notifications.
- Built an Android-first mobile app in React Native for plant discovery, shopping, identification, and care management.
- Built AI-powered plant identification that returns species, origin, care requirements, diseases, and pest/health issues from a scan.
- Developed **Dootha AI**, an AI plant-care assistant giving personalized guidance on watering, sunlight, soil, disease diagnosis, and treatment.
- Shipped smart care features: watering/fertilizing reminders, care guides, health tracking, seasonal recommendations, and personal plant collections.
- Own the full product lifecycle — architecture, development, deployment, infrastructure, debugging, and production support.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, SQL, C++, Bash

AI / LLM Engineering: LangChain, Langfuse, RAG, Hybrid RAG, Agentic Workflows, AWS Bedrock, LLM Integration, Prompt Engineering, AI Application Development

Backend Development: Python, FastAPI, Go, Node.js, Express.js, REST APIs, PostgreSQL, Redis

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

Cloud & Infrastructure: AWS (EC2, ECS), Docker, Terraform, Cloudflare, Linux

DevOps & CI/CD: GitHub Actions, CI/CD Pipelines, Infrastructure as Code, Automated Deployments

Observability & Monitoring: Langfuse, Prometheus, Grafana, Distributed/LLM, Alerting

Testing: Unit Testing, API Testing, Playwright, End-to-End Testing

Tools: Git, GitHub, Postman, Linux

EDUCATION

Bachelor of Technology — Computer Science Pragati Engineering College, Surampalem, Andhra Pradesh — CGPA: 8.2/10	Oct 2022 – Mar 2026
Higher Secondary Education — MBiPC Jawahar Navodaya Vidyalaya, Yanam, Puducherry — 85%	Jul 2020 – Apr 2022

CERTIFICATIONS

- Harvard CS50P — Introduction to Programming with Python
- Google Cloud Associate Cloud Engineer
- Linux Foundation — Open Source Development