Venkat Pabolu

Aspiring AI Software Engineer | GenAI-Augmented Developer

+917207436369 venkatprince2004@gmail.com Vijayawada, AP, India

GitHub LinkedIn Portfolio

Professional Summary

Highly adaptive AI-Augmented Software Engineer and **AI-powered Full Stack Developer** with a strong focus on **Generative AI** and **AI-Augmented development. Founder of CodeBugX,** an **AI-powered full-stack platform** featuring **3 integrated AI tools** (**Code Generator, Converter, Debugger**) and secure multi-provider **OAuth systems. Experienced** in designing and deploying production-ready applications using **Python, FastAPI, Supabase** (**PostgreSQL**)**, Render, SendGrid and Google Analytics. A rapid learner** and strong believer in **learning by building** rather than being limited to a single domain**,** Skilled in leveraging AI tools to accelerate learning and development, **capable** of **quickly understanding and applying new and existing technologies** utilizing AI tools (**Open AI**) as a development partner to build scalable and real-world solutions**.** Actively seeking opportunities in **Generative AI, AI-powered development, and AI-Augmented Full Stack roles** where I can contribute**,** innovate, learn and build impactful real-world solutions**.**

Skills

- **Languages & Frameworks:** Python, FastAPI, JavaScript, HTML, CSS
- **AI & Development:** Generative AI, AI Integration, Prompt Engineering, AI Orchestration, AI-Assisted Development
- **Backend & Database:** PostgreSQL, Supabase, REST APIs, API Development, OAuth
- **Cloud & Tools:** Render (Cloud Deployment), SendGrid, Google Analytics, Git, GitHub
- **Core Strengths:** Problem Solving, System Design, Rapid Learning, Adaptive Learning, Rapid Prototyping

Projects

CodeBugX – AI-Powered Full Stack Platform | Python, FastAPI, PostgreSQL (Supabase), OAuth, SendGrid, Google Analytics, HTML, CSS, JavaScript | Live: https://codebugx.onrender.com

- **Engineered** and **deployed** a full stack **AI SaaS platform** independently, orchestrating the integration of backend services, cloud database, authentication, and AI models into a single production-ready ecosystem
- **Developed** 3 core **AI-powered tools — Code Generator** (**50+ languages**)**, Converter** (**1k+ lines**)**, Debugger** through **integration** of an AI model (**llama-3.3-70b-versatile**), leveraging Large Language Models (**LLMs)** to automate and streamline software development tasks and enabling users to generate, transform, and debug code efficiently
- **Implemented** secure multi-provider **OAuth authentication systems** (**Google, GitHub, Facebook**) to enable secure access, ensuring a seamless and encrypted onboarding experience for users
- **Architected** scalable **RESTful APIs** with FastAPI enabling low-latency user interactions and high-performance AI processing and backend system operations
- **Integrated Supabase** (**PostgreSQL**) for structured data management, ensuring **100%** data integrity for contact submissions and user profiles
- **Integrated** an **email automation** notification system using **SendGrid**, significantly improving delivery reliability and user communication workflows
- **Executed** cloud-based deployment on **Render**, optimizing for high availability and consistent scalability under concurrent user traffic
- **Integrated Google Analytics** to monitor user activity, achieving **1000+ total views** and supporting active users across multiple regions
- **Optimized** system performance and resolved deployment challenges, improving response flow and user experience
- **Demonstrated** development by utilizing **AI-Augmented workflows** to learn, build, and deploy the entire ecosystem

Education

Bachelor of Technology in Computer Science and Engineering **Aug 2021 – May 2025**

- Andhra Loyola Institute of Engineering and Technology (**ALIET**), Vijayawada, India
- **May 2025** | CGPA**: 7.8/10**

Certifications

- AI and Data Science Certification – **Vcube**
- Data Analytics Certification – **Google**
- Machine learning with python – **IBM**