

Vaishnav Mukund Mankar

+91 8668746433 | vaishnav.mankar04@gmail.com | [linkedin.com/in/vaishnav-mankar](https://www.linkedin.com/in/vaishnav-mankar) | github.com/myselfmankar | myselfmankar.github.io

SUMMARY

Computer Engineering student (PICT, 2027) with hands-on experience building backend systems and AI-powered visualization pipelines for large-scale educational platforms. Skilled in Python, FastAPI, AWS, and Rust, with a focus on performance optimization, automation, and production-ready systems. Actively seeking remote software engineering internships (Europe / Singapore).

EDUCATION

Pune Institute of Computer Technology <i>Bachelor of Engineering in Computer Engineering; CGPA: 9.2</i>	Pune, India 2023 – 2027
Global Public School <i>Class XII; Score: 80%</i>	Nashik, India 2023
Ryan International School <i>Class X; Score: 90%</i>	Nashik, India 2021

EXPERIENCE

AI Developer Intern – Visualization (Remote) <i>Across The Globe</i>	Aug. 2025 – Present
<ul style="list-style-type: none">Contributed to core visualization components of a large AI-driven pipeline that generates personalized educational videos in multiple Indian languages, including slide-based video synthesis, interactive code-rendering explanations, and diagram visualization.Optimized backend execution on AWS Lambda, reducing processing time from ~20 minutes to ~14 minutes (~30%), and developed internal tools (Markdown-to-PDF, Mermaid architecture diagram generation with HTML rendering) to improve pipeline efficiency and developer workflows.	

PROJECTS

Intelligent Digital Asset Management <i>Python, FastAPI, TypeScript, PostgreSQL, SQL AI</i>	
<ul style="list-style-type: none">Engineered a smart asset discovery system by integrating AI-driven image tagging and a Text-to-SQL layer, enabling complex natural language queries on unstructured media and eliminating manual metadata entry.Optimized SQL query performance for semantic search, ensuring low-latency retrieval for large asset datasets.	
AI Architecture Diagram Generator <i>Python, FastAPI, LangChain, Rust</i>	
<ul style="list-style-type: none">Built a self-healing pipeline using Generative AI to automate system design diagrams, reducing creation time by 99%.Integrated Rust-based components for speed and stability, ensuring consistent output quality.	
Icon Search Engine <i>Rust, CLI, Fuzzy Search</i>	
<ul style="list-style-type: none">Developed a high-performance CLI tool for fuzzy searching over 30,000+ assets with sub-second latency.Designed for efficiency and speed to support high-throughput design workflows.	

TECHNICAL SKILLS

Languages: Python, Rust, SQL (Postgres), TypeScript, JavaScript
Frameworks/Libraries: FastAPI, Flask, LangChain, React, Node.js
Cloud & DevOps: AWS, Azure, Docker, Git, CI/CD, Linux
Tools: Astral (uv, ruff), VS Code, Postman