

# Vaishnav Mukund Mankar

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## 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

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

## EXPERIENCE

<b>AI Developer Intern – Visualization (Remote)</b> <i>Across The Globe</i>	Aug. 2025 – Present
<ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>	

## PROJECTS

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

## 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