

Vaishnav Mukund Mankar

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SUMMARY

Computer Engineering student (PICT, 2027) with hands-on experience in backend development, AI systems, and performance optimization. Built scalable cloud-based pipelines and real-time applications using Python, FastAPI, AWS, and modern AI frameworks. Strong foundation in data structures, system design, and problem solving.

EDUCATION

Pune Institute of Computer Technology (PICT) <i>B.E. 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 <i>Across The Globe</i>	Aug 2025 – Present <i>Remote</i>
<ul style="list-style-type: none">Contributed to backend components of an AI-driven educational content generation pipeline producing personalized multi-language video content.Optimized AWS Lambda execution time from ~20 minutes to ~14 minutes (~30% improvement), improving system efficiency and reducing compute cost.Developed internal automation tools including Markdown-to-PDF conversion and architecture diagram generation workflows.Assisted in building a document-grounded RAG system for answering internal queries and generating explanatory summaries.	

PROJECTS

Nao Medical Translator <i>Python, FastAPI, WebSockets, Gemini, Whisper, React</i>	
<ul style="list-style-type: none">Built a real-time bilingual communication platform enabling live translation between doctor and patient using LLM-based translation and speech-to-text.Implemented WebSocket-based architecture for low-latency communication.Designed AI-based structured medical summary generation from consultation transcripts.	
Intelligent Digital Asset Management System <i>Python, FastAPI, PostgreSQL</i>	
<ul style="list-style-type: none">Developed AI-driven image tagging and text-to-SQL search system enabling natural language queries on unstructured images.Optimized database queries for efficient semantic retrieval across large datasets.	
AI Architecture Diagram Generator <i>Python, LangChain, Rust</i>	
<ul style="list-style-type: none">Built automated system design diagram generator using structured LLM outputs.Reduced manual diagram creation effort through automated rendering workflows.	

PUBLICATIONS

GNN-Based Friend Recommendation: A Graph Embedding Approach for Social Networks	
<ul style="list-style-type: none">Accepted for Conference Presentation.Compared supervised MLP and retrieval-based friend recommendation systems.Demonstrated scalability benefits of ANN-indexed retrieval while maintaining competitive accuracy.Designed graph embedding workflows for large-scale social network datasets.	

TECHNICAL SKILLS

Languages: Python, Rust, SQL, TypeScript, JavaScript
Frameworks: FastAPI, Flask, React, LangChain
Cloud & Tools: AWS (Lambda), Docker, Git, Linux, PostgreSQL
Concepts: Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Computer Networks