

Arnav Parekar

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SUMMARY

CS student with strong foundation in software engineering principles and hands-on experience developing production-grade applications. Proven ability to collaborate with cross-functional teams, contribute to code reviews, and apply problem-solving skills across multiple programming languages including Java, Python, and C++. Eager to learn new technologies and contribute to real-world projects in a collaborative, innovative environment.

EDUCATION

Vellore Institute of Technology, Chennai

Bachelor of Technology in Computer Science

CGPA : 9.08/10

July 2023 – May 2027

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, Dart

Software Engineering: Software Development Lifecycle, Code Reviews, Git/GitHub, Agile Methodologies

Backend Development: Flask, FastAPI, REST APIs, Microservices Architecture

Full-Stack: React.js, Vue.js, Flutter, Next.js, Cross-Platform Development

Cloud & Deployment: Google Cloud Platform, Microsoft Azure, Docker, CI/CD

Additional: SQL, Machine Learning, Network Security, Linux/Unix

EXPERIENCE

OT Cybersecurity Intern | OSICS Technologies, Pune

June-July 2025

- Conducted comprehensive analysis of industrial network protocols (**Modbus, DNP3, OPC UA**) using Wireshark and specialized tools
- Conducted **risk assessments** for simulated OT environments using industry-standard frameworks such as **IEC 62443** and **MITRE ATT&CK** for ICS, identifying vulnerabilities, threats, and recommending mitigating controls.

IBM TechXChange Finalist | Global

December 2024

- Achieved **global finalist recognition** in IBM TechXChange for developing an AI-driven justice platform.

PROJECTS

InsightDoc | FAISS, RAG, Fast API, Algorithm Development

[Link](#) | Aug 2025 – Sep 2025

- Built comprehensive test suite for an intelligent document processing system, validating **FastAPI endpoints** handling **20+ concurrent enterprise queries** with **sub-5 second** response requirements
- Implemented automated testing for the Retrieval-Augmented Generation pipeline, ensuring **90%+ accuracy** in document processing workflows through systematic test case design and validation
- Contributed to **Bajaj HackRx 6.0** success through rigorous quality assurance practices, validating enterprise-scale document analysis functionality and system reliability

TravelShield | React, Azure, Flask, Flutter, Firebase

[Link](#) | Nov 2024 – Feb 2025

- Developed travel health platform with **dual interfaces** - React web dashboard for airport authorities and Flutter mobile app for global travelers, demonstrating cross-platform UI expertise and scalable architecture
- Built **responsive** React frontend with real-time data visualization and **dynamic** health scoring interface using Azure and Gemini
- Designed scalable Flutter mobile application with multilingual support (5+ languages) and Firebase integration, handling **50+ concurrent** health assessments with **under 3s** response time

Justice.ai | Vue, Gemini, WatsonX AI

[Link](#) July 2024 – Nov 2024

- Pioneered a legal AI assistant using Vue and Gemini AI, simplifying legal documents by **70%** with **NLP-driven summarization**.
- Integrated **WatsonX AI** for extracting key legal insights and delivering **language-adaptive explanations** across **5+ languages**.
- Developed a Flask API to integrate WatsonX AI and Gemini AI, enabling **real-time legal document analysis**.