

Avani Srivastava

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PROFESSIONAL SUMMARY

Computer Engineering undergraduate with hands-on experience across 3+ full-stack and AI-powered projects spanning Python, React, FastAPI, Docker. Built systems using LLMs, RAG pipelines, and microservices architecture; skilled at shipping production-style applications from design through deployment.

EXPERIENCE

Fullstack Developer Intern | *PurpleRain Techsafe, Remote* Jul 2025 – Sep 2025

- Built a web-based document generation tool supporting 3 document types (certificates, recommendation letters, joining letters), automating an end-to-end workflow that previously required manual drafting.
- Engineered dynamic, responsive templates with HTML, CSS, and JavaScript featuring real-time preview and one-click PDF generation, with form-based inputs to auto-populate personalized data and eliminate repetitive manual entry.

PROJECTS

Skill IQ | *FastAPI, React, Kafka, Redis, PostgreSQL, Docker* May 2026

- Designed a cloud-native, AI-powered interview platform built on 5+ microservices using FastAPI, Kafka, and Redis to support scalable, real-time candidate evaluation.
- Implemented an AI scoring pipeline combining LLM evaluation, embedding similarity, and rubric-based scoring across 3 signals, with real-time React/WebSockets dashboards; containerized via Docker and orchestrated with Kubernetes for production-ready infrastructure.

StudyTube AI | *React, FastAPI, Python, Gemini AI, FAISS, Supabase* Feb 2026

- Architected an AI-powered learning platform converting YouTube videos into 4 study formats – notes, quizzes, flashcards, mind maps – plus interview prep, using a RAG pipeline with FAISS vector search and Gemini AI for context-aware tutoring over full video transcripts.
- Developed a scalable full-stack app with React, FastAPI, and Supabase featuring secure authentication, REST APIs, and personalized progress tracking.

TiffinSpin | *Flask, MySQL, HTML, CSS, JavaScript* Apr 2025

- Developed a full-stack meal ordering app with secure authentication, session management, dynamic menu browsing, and a complete cart-to-checkout flow, backed by Flask-MySQL for transactional data handling.
- Structured a modular backend architecture using Flask blueprints for clean separation of concerns and maintainable code.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript

Frontend: HTML5, CSS3, ReactJS

Backend: Django, Flask, FastAPI, PHP

AI/LLMs: LLMs, RAG, Gemini API, Prompt Engineering, FAISS

Databases: MySQL, PostgreSQL, Redis, Supabase

Cloud & DevOps: Docker, Kubernetes, Firebase, GitHub Actions

Tools & Tech: Kafka, WebSockets, Git, REST APIs, GraphQL, Figma

EDUCATION

B.Tech, Computer Engineering 2023 – 2027

Pillai College of Engineering, Panvel, Navi Mumbai CGPA: 8.7/10

Higher Secondary Certificate (HSC) 2021 – 2023

D.A.V. International School, Kharghar, Navi Mumbai 82.4%

CERTIFICATIONS

- Google DeepMind AI Research – Google Cloud Skills Boost
- AWS Fundamentals of Machine Learning & AI
- AWS Getting Started with DevOps on AWS
- Google Cloud & Gen AI Study Jams
- Deloitte Australia Technology Job Simulation

COMMUNITY & EXTRACURRICULAR

Secretary, Google Developers Group PCE 2025 – 2026

- Planned and executed 12+ technical events for 100+ student participants; authored magazine articles and mentored attendees on core technical concepts.

ACHIEVEMENTS

Best All-Girls Team – Velocity Tech: Build for Speed Challenge, SWE PCE Apr 2025

Built a line-following robot using Arduino and IR sensors as part of a 3-member team; recognized for design and teamwork.

2nd Place – IoT Project Competition, Unlock Engineering Workshop, PCE Jun 2023

Designed an IoT water level monitoring system using Arduino Uno to prevent overflow; placed 2nd among 10+ teams.