Mrunal Shah

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Education

Adani University (FEST)	**Sept 2022 – May 2026**
B.Tech in Information and Communication Technology — 8.3 CGPA	*Ahmedabad, India*

Udgam School for Children	**Apr 2020 – Jun 2022**
Higher Secondary Education — 85%	*Ahmedabad, India*

St. Kabir School	**Apr 2019 – Mar 2020**
Secondary Education — 95%	*Ahmedabad, India*

Work Experience

Indian Institute of Technology Indore	**Jul 2025 – Nov 2025**
Software Development Intern	*Remote*

- Developed an AI-powered Learning Management System with role-specific workflows for Admin, Faculty, and Students.
- Integrated AI chatbots tailored for each role to enhance support and engagement.
- Built a real-time notification system to streamline updates across users.
- Implemented on-demand, subject-wise PDF generation using AI for faster course-content access.

Indian Institute Of Technology Patna	**Jun 2025 – Jul 2025**
Research Intern	*Patna, India*

- Researched the construction and efficiency of solar cell structures, focusing on perovskite solar cells.
- Contributed to a research paper on a novel compound structure for enhanced performance.
- Authored and submitted a research paper, currently under review.

AipXperts Technolabs	**Jun 2022 – Sept 2022**
Backend Developer Intern	*Ahmedabad, India*

- Assisted in developing backend systems using Laravel (PHP), MySQL, and XAMPP server.
- Collaborated with front-end developers to ensure seamless API integration.

Projects

ⓖ CRNN Handwritten Word Recognition | *PyTorch, FastAPI* — **Nov 2025**

- Developed a deep learning OCR model using PyTorch (CRNN + ResNet + CTC) trained on the IAM handwriting dataset to recognize handwritten texts.

ⓖ Growlio – AI-Driven Multi Agent Stock Prediction System | *FastAPI, ReactJS* — **Nov 2025**

- Built an AI-powered multi-agent stock forecasting system using ARIMA, Prophet, LLaMA, technical/fundamental analysis, real-time news sentiment, and a reinforcement-learning bandit for dynamic model weighting, deployed with a FastAPI backend and React+Vite SSE-based frontend.

ⓖ AdaniDB Spring Boot MCP Server | *Spring Boot, MySQL, Claude Desktop (client)* — **Jun 2025**

- Developed a Spring-based MCP server providing natural-language database querying via MCP clients.

ⓖ Adani Student Portal | *Firebase,ReactJS* — **Jan 2024**

- Developed an online portal for all the students of Adani University as a centralised location to access all college resources and materials.

ⓖ JDBC Association | *Java, MySQL, Maven* — **Jan 2024**

- Implemented CRUD operations with JDBC and designed a many-to-many relationship between Students and Courses.

Arduino-Based FM Receiver with Volume Control | *Arduino, TEA5767, I2C*

- Developed an Arduino-based FM receiver with push-button frequency control using I2C communication.

Certifications

AWS Microservices and CI/CD Pipeline Builder

AWS Academy Cloud Foundations

Statistics for Data Science

Software Skills

Languages: Java, C, Python, SQL

Databases: MySQL, PostgreSQL

Technologies: Git, Docker, TensorFlow

Developer Tools: GitHub, VSCode, IntelliJ IDEA

Concepts: Exception Handling, Multithreading, File Handling, OOP, Machine Learning (Linear Regression, Artificial Neural Networks, Data Analysis)

Hardware Skills

Foundations: Worked with Integrated Circuits, Oscilloscopes, and Trainer Kits.

Circuits: Multiplexing Logic, Microprocessors, Microcontrollers, Modulation, Antenna Design.

Networking: OSI/TCP Models, Switching, Multiple Access, DNS, DDNS, DHCP, Port Forwarding.

Co-Curricular Activities

Chair, ACM Student Chapter, Adani University

Organized and led events, expert sessions, and competitions promoting computing excellence.

Member, ASPDC (Adani Student Programming and Development Club)

Organized and participated in workshops on Web Development, Machine Learning, and Competitive Programming.