Ayan Shahid

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Education

Fast NUCES *August 2022 – Present*
Bachelors in Computer Science with Specialization in Robotics

- **Relevant Coursework:** Agentic AI, Generative AI, Natural Language Processing (NLP), Artificial Intelligence, Assembly Language, Programming Fundamentals, OOP, Software Design & Analysis, Operating Systems, Database, Data Structures, Design & Analysis of Algorithms.

Bahria College *May 2020 – May 2022*
HSSC-I & HSSC II (Grade: A)

Experience

Sarvex *July 2026 – August 2026*
Full-Stack Engineering Intern

- Successfully completed the Zero to One Internship Program.
- Contributed meaningfully to the technical architecture and development of ZORA.
- Built the Sarvex website from scratch using **Next.js** and integrated the **Claude API** to implement a custom chatbot.

NovaTechnorum *August 2025 – September 2025*
Full Stack Developer Intern

- Developed a full-stack web application integrating a fine-tuned RoBERTa model for AI-powered automation.
- Built the frontend using **Streamlit** and designed/deployed APIs with **FastAPI** to serve ML predictions.
- Implemented persistent data handling and storage with **PostgreSQL**.

Algorizms *July 2025 – September 2025*
Android Developer Intern

- Contributed to the development of a large-scale trucking logistics mobile application using **React Native**.
- Integrated APIs for real-time logistics updates and worked closely with the backend team.

Projects

CueVocal (Study Companion) *2026*

- Developed a kotlin app for generating flash cards, quzzes, interview questions demo pitches.
- Used the gemini free api for llm inference.
- It features a live ai assistant for oral communication.

Veritas Research *2026*

- Developed a platform for generating research investment memos from ingested recent SEC 10K/10Q filings.
- Used the Claude API for the LLM inference.
- Database was built in PostgreSQL PGVector
- API was made in FastAPI frontend in NextJS.

LegalMind (Final Year Project) *2026*

- Developed a secure legal platform (FYP 1 completed, advancing to FYP 2) with distinct role-based access for Junior Lawyers, Senior Lawyers, Admins, and Clients.
- Implemented a Hybrid RAG architecture using both dense and sparse vectors to optimize legal document retrieval and AI-assisted drafting.
- Engineered a Zero-Trust architecture featuring Envelope Encryption to fully secure document collaboration and real-time WebSocket communications.

- Developed and integrated a comprehensive team collaboration module to streamline case management and encrypted internal communications.

AI-Powered Insurance Claim Triage System *2025*

- Developed an AI-powered system using **NLP** to classify claims into risk categories.
- Integrated a fine-tuned **RoBERTa model** for automated classification and explainable AI insights.
- Applied advanced Exploratory Data Analysis (EDA) and preprocessing techniques to optimize model performance.

System Files Extractor *2024*

- Built a desktop application to scan and extract user files using PHP, Python, SQL, and Tkinter.

E-commerce Store *2024*

- Built a mobile application using Flutter and Firebase with Stripe payment integration.

Certifications

IBM Machine Learning Professional Certificate – Coursera *April 2026*

- Comprehensive 6-course program covering Exploratory Data Analysis, Supervised Learning (Regression & Classification), Unsupervised Learning, and Deep/Reinforcement Learning.
- Specialized training in Time Series Analysis and Survival Analysis.

Meta Full Stack Developer Specialization – Coursera *October 2025*

Technologies

Machine Learning & AI: Supervised Learning (Regression/Classification), Unsupervised Learning, Deep Learning, Reinforcement Learning, NLP, Time Series Analysis, Survival Analysis.

Languages: C, C++, Python, Flutter, JavaScript, TypeScript, SQL, HTML, CSS, Java, PHP.

Frameworks & Tools: FastAPI, Streamlit, React JS, Next JS, Node JS, Docker, MongoDB, PostgreSQL, React Native, Firebase, Android Studio.