



Arsh Verma

RA2311003012026

Bachelor of Technology in Computer Science and Engineering
S.R.M. Institute of Science and Technology ,
Kattankulathur

+91-6263178408
arshvermamm@gmail.com
av9104@srmist.edu.in
[@Github](#)
[@LinkedIn](#)

About Myself

I am **Arsh Verma**, a passionate and driven third-year CSE undergrad at S.R.M. University, devoted to leveraging technology for real-world impact. I specialize in Full-Stack Development, AI/ML, and blockchain, with ongoing contributions to open-source and entrepreneurial ventures. As the founder of the Synchronicity project, I blend a deep interest in cryptocurrencies and AI to build innovative platforms. I'm always learning, exploring bleeding-edge tech, and actively building tools that reflect my curiosity and skills.

Education

SRM Institute of Science and Technology, KTR	B.Tech CSE	2023-2027
Delhi Public School	Higher Secondary	2021
Delhi Public School	Senior Secondary	2019

Experience

Synchronicity (Crypto & AI Platform)

Nov 2024 – Present

Founder & Lead Developer

- Launched a full-stack platform integrating live crypto prices, AI-driven chat, and investment tracking tools.
- Built a responsive UI using Next.js and Tailwind CSS, integrated CoinGecko API for real-time data.
- Designed modular components for scalability, including wallet connection, chat systems, and real-time graphs.
- Led the end-to-end product lifecycle, including branding, architecture, cloud deployment, and user feedback loops.

Projects

IoT-Based Smoke Detection and Alert System

Mar 2025 - Apr 2025

NodeMCU (ESP8266), MQ-2 Sensor, Firebase, Blynk, Arduino IDE, C++

[Github](#)

- Developed a real-time smoke and gas detection system using the MQ-2 sensor connected to a NodeMCU ESP8266 module.
- Integrated Firebase for live alert logging and Blynk for mobile-based push notifications and remote monitoring.
- Designed the system for deployment in homes and small office environments, emphasizing safety and IoT scalability.

Stock Trading Reinforcement Learning Environment (Crypto)

Mar 2025 - May 2025

Python, Gym, Pandas, TensorFlow

[Github](#)

- Created a custom OpenAI Gym environment to simulate crypto trading using real price data.
- Fine-tuned policy-gradient agents and benchmarked strategies using historical crypto trends.

Technical Skills

- Languages: TypeScript, JavaScript, Python, C++, SQL
- Frameworks & Tools: React, Next.js, Tailwind CSS, Firebase, Flask, FastAPI, Node.js, GitHub, Heroku
- ML/AI: TensorFlow, HuggingFace, Transformers, OpenAI API
- IoT & Embedded: Arduino, NodeMCU, Firebase RTDB, Blynk, IFTTT
- Other: Docker, REST APIs, Postman, Figma, MongoDB, Firebase Auth, CI/CD Pipelines

Key courses taken

CSE: Introduction to C/Python, Object Oriented Programming in C++, Data Structures and Algorithms, Operating Systems, Advanced Programming Practices in Java, AI/ML, SaaS, Cloud Computing, Systems Design, IOT & Embedded Systems, Database Management System & Computer Networks

Positions of Responsibility

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| • Founder & Lead Developer, Synchronicity – Crypto & AI Platform | Nov 2024 – Present |
| • Team Member, SRMIST acm chapter SIGKDD | Apr 2024 – Present |
| • Organizer, Code Clash Hackathon, SRMIST | Oct 2024 |

Achievements

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| • Top GitHub Trending Project, Synchronicity (Trending under #Next.js & #crypto) | Apr 2025 |
| • Runner-Up, CryptoScreener, SRM Foundathon2.0 | Feb 2025 |