

ABSTRACT

Motivated and self-driven Computer Science & Engineering student at SRM University with a strong foundation in programming, AI, cybersecurity, and embedded systems. Passionate about solving complex problems, from building a personal LAN network and neural network at an early age to working on SRMSAT-2. Proficient in AI, firewall development, and ARMv7 Assembly, with a keen interest in quantum computing. Seeking opportunities to apply technical expertise in a challenging environment.

EDUCATION

SRM Institute of Science and Technology, India

Bachelor of Technology, Computer Science & Engineering *Aug 2024 – Present*

Current CGPA : 9.55/10

Taurian World School, India

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| ● Grade X CBSE | 2021-2022 |
| ● Grade XII CBSE | 2023-2024 |
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EXPERIENCE

SRMSAT Space Systems Laboratory

Onboard Computer Engineer *Aug 2024 – Present*

- Collaborating on SRMSAT-2 satellite development, focusing on onboard computer systems, **real-time operating systems (RTOS)**, image processing and aiding in the design of the board from scratch.
- Working alongside retired and present ISRO scientists to advance space technology and achieve mission objectives.

Freelance Developer & Translator – Fiverr

Mar 2025 – Present

- Provided services in **code optimization, project development, and translations** for global clients.
 - Developed optimized software solutions and scripts tailored to client requirements.
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SKILLS

- **Programming:** C, C++, Python, Java, Swift, ARMv7 Assembly
- **Cybersecurity:** Firewall development, network security, encryption algorithms
- **Database Management:** SQL, data structuring, performance optimization
- **Web Development:** HTML, CSS, JavaScript, backend integration using FLASK

- **AI :** AI model training, Prompt Engineering
 - **Miscellaneous:** Git, GitHub, GitLab, Docker
 - **Soft Skills:** Adaptable, Fast Learner, Analytical, Communication, Empathy
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CERTIFICATIONS, COURSES & AWARDS

- Harvard University CS50x Certification
 - Emerging Scientist Award - Taurian Guidance Cell
 - NVIDIA - Build A Brain In 10 Minutes
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PROJECTS

- **AI Image Classifier** – Developed a neural network-based classifier using TensorFlow.
 - **Cross-Platform Firewall with integrated IDPS and GUI** – Implemented a kernel level integrated cross platform firewall with an integrated Intrusion Detection and Prevention System (IDPS) as well as an interactive and optional graphical interface.
 - **Designed and Deployed Local Area Network (LAN)** – Successfully built and implemented a LAN infrastructure, optimizing connectivity and network efficiency.
 - **Linux-Based NAS Server** – Designed a remotely accessible **Network Attached Storage (NAS)** server with an interactive web UI.
 - **Large Database Sorter** – Created a tool to sort and organize large datasets with various file types for AI Training.
 - **Algorithms** – Developed implementations of Caesar Cipher and MODULUS-10 checksum algorithms for data encryption and verification.
 - **Patient Health Monitoring System** – Devised a patient health monitoring system that tracks basic vitals and can be monitored wirelessly.
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ADDITIONAL INFORMATION

- **Interests:**
 - Quantum Computing,
 - AI,
 - Cyber Security,
 - Defense & Space Systems
- **Languages:**
 - English (Fluent),
 - Hindi (Fluent),
 - German (Working Proficiency)
- **Current Pursuits:**
 - Writing a Paper Solid State Physics, Relation between Heisenberg's Uncertainty and Bloch's Theorem and fabricating an Efficient PhotoVoltaic Array
- ❖ **References :**
 - Dr. Loganathan M. Retd. Sr. Scientist ISRO, Professor of Practice Department of Electronics and Instrumentation engineering SRMIST. loganatm2@srmist.edu.in | +91 94490 37763