

MRIGAANK SHARMA

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [IITM](#)

SUMMARY

Full-Stack & AI Engineer with a proven track record of building, optimizing, and deploying production-ready web applications and autonomous AI tools. High proficiency in **Next.js**, **Node.js**, and **Supabase**, paired with hands-on experience integrating agentic workflows and Large Language Models (LLMs). An entrepreneurial builder with practical expertise in cloud infrastructure (GCP), open-source collaboration, and scaling data-driven, user-centric products from architecture to deployment.

SKILLS

Programming Languages: C++, JavaScript, Python, C

Full-Stack Development: Next.js, Express.js, Supabase, JWT.

Databases: MongoDB, Firebase, MySQL, NeonDb.

Tools & Platforms: Git, GitHub, Postman, VS Code, Cursor.

Other Skills: Agile Methodologies, System Debugging, Version Control, Performance Optimization.

EDUCATION

Indian Institute of Technology, Madras — *BS in Data Science and Applications* (2023–Present)

CGPA-7.0

ABES Institute of Technology — *B.Tech in Computer Science* (2023–Present)

CGPA- 8.3

CCDPS — *Senior Secondary School* (2023)

79.2%

EXPERIENCE

Full Stack Developer Intern — Lyseibug | (Remote) (May 2026 – July 2026)

- Collaborated on the design and development of a full-stack Enterprise Resource Planning (ERP) platform tailored for academic lecture management, optimizing system performance to improve load times by **18%**.
- Integrated robust RESTful APIs into the core architecture to ensure reliable data orchestration, seamless backend-to-frontend communication, and a uniform user experience across device ecosystems.
- Analyzed complex user interaction patterns across different institutional roles to apply iterative UI/UX enhancements, resulting in a **25% increase in user engagement** and streamlined administrative usability.

PROJECTS

QA.ai — Agentic Testing Platform.

- Engineered an AI-driven QA automation platform using **Next.js** and **Browserbase** to orchestrate autonomous web agents that mimic real user sessions, click-through flows, and visual regression reporting.
- Modeled a high-performance database schema using **NeonDB (Serverless Postgres)** to store session transcripts, structured failure outputs, and real-time execution logs.
- Deployed the full-stack web application on **Vercel**, optimizing cold starts and serverless functions for seamless low-latency handling of headless browser data streams.

Carify — Smart Car Renting Web Platform

- Developed a seamless car renting website that improved booking efficiency by 30% through optimized navigation and workflow design.
- Implemented fast car search and filtering logic using JavaScript, reducing user search time by 25%.
- Designed a clean, responsive UI that enhanced user engagement and increased session duration by 20%.

Digital Image Watermarking — ML Based Security.

- Developed a deep learning–based digital watermarking system using a CNN architecture combined with **AlphaNet** and Discrete Wavelet Transform (DWT) to securely embed and extract watermarks in the frequency domain.
- Implemented robust watermark embedding and extraction pipelines that improved resistance to common image attacks such as compression and noise.
- Designed and evaluated the model to ensure high imperceptibility and accuracy, enhancing the reliability of digital content protection.

ACHIEVEMENTS

- **IIT Madras Academic Excellence:** Awarded the **Topper Badge** for finishing in the top percentile of courses during the Foundational Level of the BS in Data Science and Applications program.
- **Google Cloud Practical Expertise:** Earned multiple technical badges via **Google Cloud Skills Boost (The Arcade)**, validating hands-on proficiency in cloud infrastructure management, serverless deployments, and core GCP services.
- **Multi-Hackathon Podium Finish & Finalist:** Secured 3rd place in CODEATHON 4 (ABESIT), ranked Top 10 at the MSIT Hackathon, Hacknovate 6 and advanced as a grand finalist in both the SGU and Amity University Hackathons.
- **Open-Source & Algorithmic Proficiency:** Successfully contributed to global open-source projects during Hacktoberfest, while solving 500+ DSA problems across LeetCode and GFG to earn multiple platform badges.

CERTIFICATIONS

- Foundational Level Certificate in Data Science and Programming — IIT Madras
- DBMS Certification — Infosys
- Complete Web Development — Udemy
- Introduction to Artificial Intelligence and Machine Learning using Python — Infosys Springboard.