

Mrinank Gaur

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PROFESSIONAL SUMMARY

Electronics and Communication Engineering undergraduate skilled in full-stack development, digital design, and robotics. Experienced in building scalable solutions across embedded systems, SoC architectures, and MERN applications. Passionate about bridging hardware and software to create real-world impact.

EDUCATION

Vellore Institute of Technology

B.Tech in Electronics and Communication Engineering

2022–2026

CGPA: 8.94/10

The Khaitan School

Class XII (CBSE)

2022

Percentage: 89.2%

EXPERIENCE

Digital Design Intern

Maven Silicon

May 2024 – July 2024

Chennai, India

- Designed and implemented an APB–AHB bridge for System-on-Chip (SoC) integration.
- Developed RTL designs in VHDL/Verilog and verified bus protocols.
- Performed simulation, synthesis, and functional verification using Cadence tools.

PROJECTS

Shopalytics – B2B SaaS for Shopify Stores | *Next.js, Node.js, Prisma, PostgreSQL* | [GitHub](#) Aug 2025 – Present

- Developed B2B SaaS integrating Shopify APIs for automated store data ingestion and synchronization
- Engineered multi-tenant backend with Prisma + PostgreSQL and secure role-based authentication
- Delivered business insights via interactive dashboards for revenue, customers, and order trends

Boardly – Collaborative Whiteboard | *Next.js, TypeScript, LiveBlocks, Convex* | [GitHub](#) May 2025 – Jul 2025

- Built real-time collaborative whiteboard with live cursors and multi-user editing via LiveBlocks
- Developed drawing toolkit with 5+ tools (shapes, text, notes, freehand) and layer management
- Implemented authentication, board sharing, and responsive UI with modern design patterns

Email Authentication Kit | *MERN, Nodemailer, Handlebars* | [GitHub](#)

Jan 2025 – Mar 2025

- Engineered secure email verification system with JWT token validation, achieving 95% delivery success rate
- Integrated Nodemailer with Handlebars templating engine for dynamic, professional email formatting
- Developed full-stack MERN application with MongoDB integration and responsive React frontend

Automatic Number Plate Recognition | *Python, OpenCV, EasyOCR, ESP32* | [GitHub](#)

Jan 2025 – Mar 2025

- Developed real-time license plate detection system using ESP32-CAM and Python server with 95% accuracy
- Implemented OpenCV image processing pipeline with EasyOCR, reducing recognition latency under 2s
- Built responsive web interface for image capture, processing, and real-time preview across formats

TECHNICAL SKILLS

Languages: JavaScript, Java, Verilog, SQL, HTML/CSS

Frameworks: React, Node.js, Express.js, Material-UI

Developer Tools: Git, Cadence, ESP32, Raspberry Pi, Arduino

Libraries: OpenCV, pandas, NumPy, Matplotlib

Other: MongoDB, Convex, Clerk, LiveBlocks, JWT, Nodemailer

CLUBS / EXTRACURRICULAR

Robotics Engineer

Technocrats Robotics, VIT University

Oct 2023 – May 2025

Vellore, India

- Designed and calibrated 8-axis movement control for autonomous rover.
- Integrated Arduino/Raspberry Pi with ROS for sensor fusion and communication.
- Collaborated on modular software for motion planning and diagnostics.