# Mrinank Gaur

+91 9311576661 | mrinank2484@gmail.com | LinkedIn | GitHub | LeetCode

## 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** *2022–2026*
*B.Tech in Electronics and Communication Engineering* **CGPA: 8.94/10**

**The Khaitan School** *2022*
*Class XII (CBSE)* **Percentage: 89.2%**

## EXPERIENCE

**Digital Design Intern** May 2024 – July 2024
*Maven Silicon* *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

**Boardly – Collaborative Whiteboard** | *Next.js, TypeScript, LiveBlocks, Convex* | GitHub May 2025 – Jul 2025
– Built real-time collaborative whiteboard with live cursor presence and multi-user editing using LiveBlocks integration
– Developed comprehensive drawing toolkit with 5+ tools (rectangle, ellipse, path, text, notes) and layer management system
– Implemented user authentication, board sharing, and responsive UI components using 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

**Shopalytics – B2B SaaS for Shopify Stores** | *Next.js, Node.js, Prisma, PostgreSQL* | GitHub Aug 2025 – Present
– Built a B2B SaaS platform that integrates directly with Shopify APIs for automated store data ingestion and synchronization
– Engineered multi-tenant backend with Prisma ORM and PostgreSQL, supporting secure authentication and role-based access control
– Delivered actionable business insights through dashboards featuring revenue analytics, customer segmentation, and order trends
– Designed scalable architecture for handling multiple Shopify tenants with real-time data updates and interactive visualizations

## 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** Oct 2023 – May 2025
*Technocrats Robotics, VIT University* *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.