

MOURYA BIRRU

Portfolio Website - <https://mourya-birru.vercel.app>

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LeetCode | **Linkedin** | **GitHub** | **HackerRank**

Completed over 300 LeetCode problems and earned multiple HackerRank certifications in Python, Java, SQL, and problem-solving. MongoDB Certified Associate Developer with hands-on experience in developing full-stack projects using Java, Node.js, Firebase, and MongoDB. Currently interning in the fields of generative AI and cybersecurity. Strong interest in building scalable backend systems, AI/ML-driven applications, and intelligent automation solutions.

EDUCATION

Geethanjali College of Engineering and Technology Computer Science and Engineering Bachelors CGPA: 8.25	Hyderabad, India September 2023 - Present
Resonance Junior College MPC Intermediate Percentage: 84.9%	Hyderabad, India 2022 - 2023
Rajiv Gandhi University of Knowledge Technologies PUC - 1	Basar, India 2021 - 2022
Pallavi Model School Degree in Schooling Percentage: 87.8%	Hyderabad, India 2015 - 2021

EXPERIENCE

Google Student Ambassador	July 2025 - December 2025
<ul style="list-style-type: none">Selected as a Student Ambassador for programs led by Google, representing and promoting tech initiatives within the student community.Organized and supported workshops, events, and awareness activities to encourage student participation in technology programs.Built strong peer networks and increased engagement through campus outreach and online promotion.	
Supraja Technologies Cyber-Security Intern	Hybrid May 2025 - August 2025
<ul style="list-style-type: none">Performed 12+ simulated penetration testing tasks: scanning, exploitation, and reporting.Identified critical vulnerabilities: SQL Injection, XSS, Host Header Injection, IDOR.Used tools like Nmap, Wireshark, Metasploit, and Nessus for vulnerability assessment.Documented findings and remediation in structured security reports.	

SKILLS

Programming Languages:	C, Java, Python, R, HTML, CSS, JavaScript, Node.js, TypeScript
Libraries/Frameworks:	Tensor Flow, PyTorch, Scikit-learn, Keras, OpenCV, NumPy, Pandas, Matplotlib, Seaborn, Statsmodels, React.js, Bootstrap, Tailwind CSS, Express.js
Tools / Platforms:	Git, VS Code, PowerBI, Microsoft Office 365, GitHub, Jupyter Notebook, Google Console, Tableau, Figma, Firebase
Databases:	SQL, MongoDB

PROJECTS / OPEN-SOURCE

Hobby OS (x86 Kernel) Link	<i>C, x86 Assembly, GNU Assembler, QEMU</i>
A custom-built, low-level x86 operating system kernel developed from scratch.	
<ul style="list-style-type: none">Implemented foundational kernel structures including the Global Descriptor Table (GDT), Interrupt Descriptor Table (IDT), and memory paging.Architected keyboard driver and hardware-level interface protocols to enable functional user-mode input processing.Leveraged Assembly for bootloader bootstrapping and low-level CPU state management, ensuring stable transition to protected mode.	
Skills: Systems Programming, Kernel Development, Low-level Optimization, Hardware Architecture	

Air Canvas | [Link](#)

Python, OpenCV, NumPy, Computer Vision

An interactive gesture-based painting application using real-time hand tracking.

- Implemented color detection and masking algorithms in OpenCV to track specific colored objects for dynamic drawing inputs.
- Developed frame-by-frame spatial coordinate mapping to translate real-world hand gestures into digital strokes on a virtual canvas.
- Optimized image processing pipelines to minimize latency, ensuring smooth and responsive interaction for a real-time user experience.

Skills: Computer Vision, Real-time Image Processing, Human-Computer Interaction

Smart Attendance System | [Link](#)

Python, OpenCV, Computer Vision, Deep Learning, SQL

A real-time biometric attendance solution designed to automate classroom tracking.

- Implemented facial detection and recognition pipelines using OpenCV and deep learning models to identify students with high accuracy.
- Built a robust registration and training workflow to map unique student identifiers to facial features stored in a relational database.
- Developed an automated logging system that captures timestamps and attendance records, eliminating manual intervention and proxy issues.

Skills: Computer Vision, Real-time Processing, Biometric Authentication, Data Modeling

Career Compass | [Link](#)

TypeScript, Firebase, React, Tailwind CSS, Next.js, Genkit

A full-stack platform for personalized career guidance.

- Implemented Genkit-powered AI for resume analysis, skill mapping, and certification suggestions.
- Built dynamic UI with Tailwind, shadcn/ui, and Radix UI.
- Used Firebase for real-time storage and user authentication.

Skills: Full-stack development, Firebase Auth, AI-integration

EatIQ | [Link](#)

TypeScript, N8N, React, Tailwind CSS, Next.js

Developed EatIQ, a web app that analyzes food images and shows nutrition details using AI.

- Built the frontend using React, TypeScript, and Tailwind CSS with a clean and responsive design.
- Integrated AI workflows to process images and generate calorie and nutrient information automatically.

Skills: React, Node.js, AI integration, n8n, Web Development

MEMBERSHIPS

IEEE Computer Society | Student Member

September 2024 - January 2026

Indian Society for Technical Education | Student Member

February 2024 - Present

CERTIFICATIONS

- Networking Technician - **Cisco**
- MongoDB Associate Developer (NodeJS) - **MongoDB**
- Data Science and Machine Learning BootCamp with R - **Udemy**
- Machine Learning in Python - **365 Data Science**
- The Complete Full-Stack Web Development Bootcamp - **Udemy**
- Java - **HackerRank**

ACHIEVEMENTS

- Secured an AIR 9602 in GATE 2026 CSE
- Ranked 542 Globally and 149 Nationally in IEEE Extreme 18.0
- Secured Rank 1 in the Smart Interviews GCET-2027-R Coding Challenge among peers across the college