Ishaan Jain

Student | Computational Systems Engineer
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Experience

Fooddle 02/2026 - Present
Software Engineer (Full-time) Remote
- Took Fooddle from a blank repo to a live platform serving 15,000+ users daily, ~US$12K average transaction value (Django REST, Expo/React Native).
- Owned the money path: Razorpay with tax/TCS, per-shop bank accounts and a ledger reconciling every transaction.
- Go worker on AWS SQS for bills, payouts, mail, catalog sync; 47,052-request load test: p95 709 ms, 0.03% errors, breaks at 4-6K users.

Thapar Institute of Engineering & Technology 05/2026 - 07/2026
Research Intern (Internship) Patiala, Punjab, India (On-site)
- Designed the Universal Brain Board, a reusable PCB platform for robotics applications, and integrated it into 4 of 6 robotics projects (66.7% success rate).
- Collaborated with the on-campus robotics research group on PCB architecture, circuit design and hardware integration, building a standardized platform that streamlines prototyping across projects.

Haryana Cyber Police 05/2024 - 08/2024
Gurugram Police Cyber Security Summer Internship (GPCSSI) Gurugram, Haryana, India
Cyber Ambassador
- Selected as 1 of 100 applicants for the Gurugram Police Cyber Security Summer Internship, gaining practical exposure to 3 cybersecurity and digital forensics techniques.
- Contributed to 19 cybersecurity outreach engagements (12 awareness workshops and 7 guest lectures), reaching 1,100 participants with public education on cybercrime prevention and digital safety.

Adobe Inc. 08/2023 - 11/2023
Project Intern Greater Noida, UP, India
- Completed project-based training on Adobe Express and industry-standard creative workflows.
- Collaborated on team projects, strengthening communication, feedback handling and adaptability in a professional setting.

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL
Development: Android Development, Software Architecture, AI/ML Systems, TensorFlow, Alpaca API, Quantum ML, Astropy
Cybersecurity: Secure Systems, Network Security, Threat Analysis, Data Protection, LLM Security, TLS / mTLS
Blockchain: Solidity, Ethereum, Smart Contracts, Web3.py, Hardhat, ethers.js
Tools: Git, GitHub, Linux, Android Studio, VS Code, Bash, Terraform, Jupyter, Grafana
Engineering: Robotics, Embedded Systems, Control Systems, Prototyping, MQTT, ESP32, FPGA, Isaac Sim

Projects

Aegis | LLM Security Gateway | Python, FastAPI, PostgreSQL, React
- Built an LLM security gateway screening prompts/responses with 8 detectors in 3 tiers (regex, YARA, ML), mapped to OWASP LLM Top 10.
- Added canary-token leak detection, a YAML policy engine (allow/sanitize/challenge/block) and precision/recall/F1 benchmarks.

OceanEmbed | Subsurface Ocean Reconstruction | Python, PyTorch, Geospatial ML
- Physics-constrained pipeline reconstructing ocean temperature/salinity at 18 depths (0-2,000 m) from satellite data; 8,340 Argo profiles.
- Validated on held-out Bay of Bengal (1,044 profiles) and monsoon season; 80%/95% bands cover 81%/95%.

AI Finance Controller | Razorpay AI Buildathon | Python, LLM Agents, Streamlit
- Built a reconciliation agent proving each ledger mismatch with a sandboxed, hash-chained script; precision/recall 1.0 on 60 records.
- Whole-batch conservation check caught an INR 175.87 systematic drift; ~3,700 records/sec; self-adversarial fuzzing layer.

Education

Thapar Institute of Engineering and Technology, Punjab
Bachelor's in Engineering - Mechatronics Engineering

Amity International School, Sector-43, Gurugram
CBSE Senior Secondary Certificate Examination (Computer Science)

Honors and Awards

- AIM ATL Marathon – Top 500 Teams (Issued by NITI Ayog, Govt. of India)
- IIMB CDPG Case Competition – National Runner Up (Issued by Centre for DPG)
- Amity Space Design Contest – First Position (Issued by Children's Science Foundation)

Leadership and Extracurricular

Mechatronics and Robotics Society, TIET
Control and Automations Engineer

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