Yash Varma

Software Engineer: Full-Stack, Applied AI and Automation
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Summary

MSc Computer Science student at UCD with internship, contract and freelance experience building full-stack products, backend services and AI systems in Python and TypeScript. Built a RAG dashboard over 10,000+ Jira tickets at ConnectWise, payment workflow services at Norxio and multi-agent automation at EaseworkAI. Available part-time (up to 20 hours/week) during term, for an internship from May 2027 and for full-time employment from Sep 2027, subject to work permission and my course.

Education

University College Dublin Sep 2026 - Aug 2027 (expected)
MSc in Computer Science (Negotiated Learning) *Dublin, Ireland*

SIES Graduate School of Technology, University of Mumbai Aug 2022 - Jun 2026
BE in Artificial Intelligence and Machine Learning, CGPA 8.95/10 *Mumbai, India*

Experience

Founding Software Engineer Jan 2026 - Jul 2026
Norxio (B2B payments) *UK, Remote*

- Built Nest.js services and Next.js dashboard workflows for B2B payments: foreign exchange conversion and merchant account reconciliation.
- Deployed low-latency services on Cloudflare Workers; added Socket.IO real-time transaction and account-state notifications.
- Built a multilingual content pipeline on Sanity CMS and the OpenAI API; Redis caching cut repeat translation API calls by ~90%.

Engineering Intern Jun 2025 - Jul 2025
ConnectWise *Mumbai, India*

- Built a RAG-based Jira issue-analysis dashboard (Python, Next.js) over 10,000+ tickets with one teammate, cutting manual triage time by ~75%. Deployed and managed it in production.
- Built a cron-scheduled ingestion pipeline syncing 10,000+ ticket records with delta updates and fault-tolerant retries; automated deployment with GitLab CI/CD.

Software Development Engineer Intern Jan 2025 - Feb 2025
Cartman Labs (Slaps) *San Francisco, USA, Remote*

- Shipped an autonomous X/Twitter agent service (Next.js, Python, MongoDB, Eliza OS) for content scheduling and user interaction.
- Built a Web3-authenticated community platform (Next.js, PostgreSQL) on DigitalOcean, GCP OAuth and Vercel; ~99.5% uptime, sub-200ms API responses.

Full-Stack and AI Engineer Intern Apr 2024 - Jul 2024
EaseworkAI *Canada, Remote*

- Automated supplier-buyer procurement emails with CrewAI, Microsoft Graph API, FastAPI and LLMs, with ~60% faster response turnaround; deployed backend services and databases on Google Cloud Platform.

Freelance Software Developer (Eivora) 2024 - Present
Self-employed *Remote*

- Deliver client websites, web apps, APIs and workflow automation from requirements to deployment (eivora.app, yashvarma.in).

Projects

Kavach.ai, malware triage suite (1st Place, GajShield Hack 8, 2,000+ participants): Electron.js, Python, Docker, XGBoost. Disposable Docker sandbox, entropy analysis and a classifier trained on ~184 GB of byte data.

LoanSaathi, multilingual loan assistant (1st Place, Great Bengaluru Hackathon, ~5,000 participants): FastAPI, Next.js, Supabase, PaddleOCR. OCR, clause detection and EMI guidance in 8 languages.

SeaGuard, maritime safety app (Most Product Readiness, Hackcelestial 2.0): React Native, FastAPI, TensorFlow. Fishing-zone prediction at ~97% accuracy with SOS alerts; shown to the Chairman of ISRO.

Intelligent Cooperative Q&A Agent System (2nd Runner-Up, AMD AI Sprint @ IIT Bombay): fine-tuned Qwen-3 4B generator and LLaMA 3.2 3B solver under a 24-hour GPU limit.

Publications

- Attention Enhanced Speaker Representation with Contrastive Learning, IEEE ICCUBEA 2025 (published conference paper, co-author). ieeexplore.ieee.org/document/11284010
- Advanced Fake News Detection Using BERT and Ensemble Learning, ICDSM 2024, Springer (published conference paper, co-author). link.springer.com/chapter/10.1007/978-981-95-1320-8_1
- S2VNet-CA, hyperspectral image classification (first author, manuscript in preparation).

Technical Skills

Languages: Python, TypeScript, JavaScript, Java, SQL, C++
Web and backend: Next.js, React, Nest.js, Node.js, FastAPI, Flask, REST APIs, Socket.IO
AI and ML: RAG, LLM orchestration, CrewAI, LangChain, PyTorch, TensorFlow, fine-tuning (LoRA, SFT)
Data, cloud and tools: PostgreSQL, MongoDB, Redis, Docker, GCP, Cloudflare Workers, GitLab CI/CD, Git, Claude Code

Awards and Leadership

10+ hackathon wins including 1st Place at GajShield Hack 8, Great Bengaluru Hackathon and Datathon 24 (2025). Technical Lead, E-Cell SIES GST (2024-2025): mentored 20+ junior developers. Competitive Programming Coordinator, Arena SIES GST (2023-2024): ran contests for ~500 participants. AWS Academy Cloud Foundations (2025).