

SOHAM SHARMA

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CAREER HIGHLIGHTS

- HKSAR Government Scholarship Fund - Talent Development Scholarship Awardee, Jun 2026
- National IOI Qualifier (UAE Rank 3) – Top competitive programmer, International Olympiad Foundation, Jan 2024
- Conrad Innovator – Awarded by Conrad Foundation for the FHLE lattice-cryptography project, Feb 2024
- Distinction (Top 25%), Cayley Contest – University of Waterloo & CEMC mathematics competition, May 2023

EDUCATIONAL QUALIFICATIONS

Qualification	College / University / School	Passing Year
B.E (CSE)	The Hong Kong University of Science and Technology	2029
XII	Dubai International Academy, IB Board	2025

INTERNSHIPS

CarryAI AI Engineer Intern

2.5 months (1st June – 14th August, 2026)

- Built an AI-powered pipeline automating robotic dog patrolling with ROS & SLAM
- Integrating multi-modal AI features into production systems with automated n8n workflows, reducing manual processing time
- Collaborating with cross-functional teams to design openclaw pipelines and evaluate model performance on real data

INDMoney Research & Development Intern

3 months (15th December, 2025 – 15th March, 2026)

- Automated a personal finance manager role using n8n workflows and AI agents to deliver actionable insights
- Built pipelines that explained financial reports to customers and suggested next steps via conversational AI
- Leveraged LLM tool-use and structured outputs to parse complex financial data into user-friendly summaries

PROJECTS

OurThing

March 2026 – Present

- Campus-focused app for free food/giveaway posts with NestJS + PostgreSQL + Redis backend and Flutter client
- Delivered FCM push notifications, Socket.IO live updates, JWT auth, and Azure Content Safety moderation
- Shipped Next.js 14 admin panel (TypeScript, Tailwind, TanStack Query) for moderation, reports, and bans

Financial Homomorphic Lattice Encryptor (FHLE)

Nov 2023 – Jan 2025

- Developed lattice-based encryption scheme using the Shortest Vector Problem (SVP) for enhanced security
- Implemented homomorphic encryption to keep sensitive data encrypted during transmission and computation

Safe & Secure Concerts

Dec 2023 – Feb 2024

- Built Raspberry Pi Zero 2W armband tracking concert-goer location via BLE and streaming vitals to a server
- Visualized real-time location and health data graphically on a central dashboard for event safety monitoring

AI-Reparo

Dec 2022 – Mar 2023

- Designed hybrid drone system using YOLOv8 + image binarization to detect & repair wind turbine blade erosion

ACHIEVEMENTS & CERTIFICATIONS

- Bronze Honor, International Youth Math Challenge (IYMC), December 2022
- 100 Days of Code Python Bootcamp | Cryptography I – Stanford | Quantum Computing – The Coding School
- Learn C++ & Intermediate C++ – Codecademy (July 2025); Python & Ethical Hacking – zSecurity (2023)

TECHNICAL SKILLS

- Languages & Frameworks: TypeScript, Python, C++, Dart, NestJS, Next.js, Flutter, Flask, Pandas, BeautifulSoup
- Infra & Tools: PostgreSQL, Redis, Docker, Firebase, Socket.IO, n8n, Azure Content Safety, JWT, Swagger
- AI/ML: LLM agents, prompt engineering, YOLOv8, image binarization, quantum computing (QKD, quantum algorithms)