

SIDHARTH SREEKUMAR

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A full-stack developer with industry experience in system architecture, middleware and financial analytics, actively researching LLM optimization and intraday trading systems, with a strong foundation in cloud infrastructure.

EDUCATION

The Hong Kong Polytechnic University

BSc (HONS) in Computer Science, Minor in Management & Economics

- *First-Class Honours · Dean's Honour List · Full Academic Scholarship*

Aug 2022 – Jul 2026
Hong Kong, China

WORK EXPERIENCE

HSBC

Analyst – Digital Transformation

- Drove delivery of 6 projects across Private and Personal Banking, spanning product releases (HSBC Easy Credit Card, Premier Elite Debit Card, new mobile app), regulatory compliance (HKMA loans update) and defect resolution (digital wallet binding bug).
- Authored user stories and journey maps for HSBC's new mobile app, and built custom macros, SQL and JQL systems for resource tracking, governance and automated reporting.

Jan 2025 – Jun 2025
Hong Kong, China

Reliance Jio Infocomm

Middleware Architect Intern

- Sole-led an R&D initiative to integrate Apache Kafka into the existing data pipeline of a new cloud servicing platform under the Ambani group, improving latency and fault detection.
- Designed and built a backend search engine indexing all servers using Apache Lucene's reverse indexing, enabling natural language queries by IP, location or status, backed by MongoDB for real-time server monitoring.

Jun 2024 – Aug 2024
India × USA

Evergreen Wearable Technology

Full Stack Developer Intern

- Built a cross-platform mobile app using gyroscope sensors to transform phones into gesture-based controllers for computer interaction, designed as an accessibility solution for differently-abled users.
- Released the app on the App Store and Google Play Store, and packaged the core functionality as a Unity Asset for third-party integration.

Aug 2023 – Dec 2023
Hong Kong

Amazon Web Services (AWS)

Student Ambassador | Technical Market Researcher

- Developed an alternative growth strategy for cloud adoption in Hong Kong's Retail and SME sector to drive AWS uptake across the industry.
- Drove partner development between AWS and Hong Kong universities to accelerate cloud talent growth.

Feb 2023 – Feb 2024
Hong Kong

PROJECTS & RESEARCH

An Intelligent Financial Advisor | *Next.js, Node.js, PyTorch, yFinance, Bloomberg*

- Developed an intraday trade advisor using a self-designed 4-layer transformer trained on live price feeds and historical OHLCV data, generating Entry, Take Profit, Stop-Loss and State signals with deterministic risk control, outperforming the HSI by 6.56 percentage points in Q1 2026.

Jul 2025 – Apr 2026

KafkaOMS | *Java, Apache Kafka, Spring Boot, Docker, PostgreSQL*

- Architected an event-driven order management system with modular services for order intake, risk validation, fill simulation and PnL tracking, featuring replayable event streams and decoupled service communication via Apache Kafka.

Feb 2026 – Mar 2026

Compression of Hardware Cache for LLMs | *Python, CUDA*

- Researching lossy compression of KV caches in LLMs using the cuSZp architecture, achieving 90% compression of memory footprint via vectorized bitstreams.

Aug 2025 – Feb 2026

EXTRA-CURRICULARS

HackTheEast

Founder, Co-Organizer

- Organised Hong Kong's first student-led AI hackathon with 650+ registrations and 30+ sponsors including Cursor, MiniMax, Lenovo and ExpressVPN, with cloud credits backed by AWS.

Oct 2025 – Mar 2026
Hong Kong

Amazon Web Services (AWS)

AWS Student Community Builder (Regional Level)

- Founded the AWS Cloud Clubs Hong Kong Chapter, growing a 700+ member community through event-based cloud learning programs across Hong Kong universities.

Mar 2024 – Mar 2026
Hong Kong

African Evangelistic Enterprise (AEE)

Volunteer Engineer

- Deployed solar-powered intranet servers providing free educational resources to rural villages in Rwanda, alongside solar housing infrastructure to support long-term accessibility.

Jan 2023 – Jul 2023
Rwanda × Hong Kong

SKILLS

Technical Python (Django, Sockets, PyTorch, NumPy), Java, C, C++, C#, SQL, Golang, Dart, Apache Kafka, REST API, Flutter, AWS, Google Cloud, Azure, OpenStack

Certifications AWS Certified Cloud Practitioner, Google AI Fundamentals, Nvidia Deep Learning Fundamentals

Soft Skills Project Management, Business Communication, Stakeholder Engagement