

Donovan Singh

dong617@hotmail.com | <https://donovansingh.com>

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

BCOMP IN COMPUTER SCIENCE

Exp Grad. May 2025 | GPA: Distinction
University Scholars Programme

CHINESE UNIVERSITY OF HONG KONG

Fall Exchange 2023 | Hong Kong SAR

LINKS

 donovan-singh

 donovansingh

COURSEWORK

Data Structures and Algorithms
Parallel and Distributed Algorithms
Theory of Computation
Software Engineering
Big Data Systems
Database Systems
Operating Systems

SKILLS

Experienced

- Python • Java • JavaScript • React
- Django • NodeJS • SQL • Maven
- Tailwind

Familiar

- AWS • Docker • Spark • SpringBoot
- Jest • Hive • Scala • NextJS • Kafka

AWARDS

2021 | University Scholars Programme
2019 | TJC Academic Excellence Award
2016 | St Patrick's School Scholarship

ACTIVITIES

Meta's Above Beyond Computer Science
Selected for intensive data structures and algorithms workshop series with Meta software engineers in Singapore.

University Scholars Club

Tech lead for building University Scholars Club portal and Cinnabot chatbot.

EXPERIENCE

OKX | INCOMING SOFTWARE ENGINEER

From July 2025 | Singapore

- Centralised Finance, Growth team.

STANDARD CHARTERED | SOFTWARE ENGINEERING INTERN

May 2024 - Aug 2024 | Singapore

- Worked in the **Corporate & Investment Banking, E-Commerce, Blade** team.
- **Developed full-stack features** for the Standard Chartered Markets application, a platform supporting pricing and trading of cross-asset derivative products.
- **Refactored core backend services** used by multiple backend-for-frontend services, **migrating components** from Scala to Java to enhance scalability.
- **Configured a central server** on a linux virtual machine to communicate with external client systems.
- Utilised TypeScript React, Jest, SpringBoot, Java, Scala, Maven, Kafka, Docker.

SHOPEE | DATA ENGINEERING INTERN

Jan 2024 - Apr 2024 | Singapore

- Worked in the **Marketplace, Regional Sellers** team.
- **Designed schemas and optimised queries** for processing petabytes of Shopee traffic data for the Seller Education Hub and Seller Missions platforms.
- **Built data pipelines** for processing sellers' metrics data for Preferred Sellers.
- **Designed regex** for detecting seller accounts with fraudulent shop names.
- Utilised Python, PrestoSQL, SparkSQL, Hive.

HTX | SOFTWARE ENGINEERING INTERN

May 2023 - Aug 2023 | Singapore

- **Developed full-stack features and built infrastructure-as-code deployment architecture** on HTX's Cloud Evidence Portal to provide digital information forensics capabilities for police officers.
- **Developed full-stack features** on HTX's AlchemiX 2.0, a deepfake detection product used by government agencies.
- Utilised TypeScript React, AWS Lambda, S3, DynamoDB, Cloudformation, Node, Python, Docker.

TEACHING

SOFTWARE ENGINEERING

Summer 2023, Summer 2024

- Tutored 60 NUS Year 1 students over Summer 2023 and Summer 2024.
- Taught software engineering principles and patterns, version control, provided weekly sprint consultations, and graded software submissions.
- Obtained an excellent feedback score of 4.9/5.0.

BIG DATA SYSTEMS

Spring 2025

- Tutored NUS senior year students in Spring 2025.
- Taught topics like MapReduce, stream processing, database scalability, data partitioning and PageRank.