

Rishabh Nautiyal

Hong Kong | +852 56146278 | @rishabh.nautiyal@outlook.com | <https://www.rishabhnautiyal.com>

Education

City University of Hong Kong

BSc. Computer Science

Sep 2018 - May 2022

Top Scholarship - First Class Honours

Experience

Full Stack Software Engineer | Fixed Income Team

CITIC CLSA

November 2022 - Present

(Angular, Java, Springboot, Python, Postgres)

- Architected and delivered a scalable and resilient **Trade Approval Platform** with **real-time regulatory violation detection**, and **hierarchical approval workflows**, facilitating regulatory compliance, reducing breaches and enhancing visibility for upper management.
- Developed a versatile **Python based Trade Upload Automation** Program for multiple securities. Built a robust **trade reconciliation system** along with automated notifications, saving over **15+ work-hours weekly**.
- Provided **production support** to trading operations, swiftly troubleshooting and **resolving critical issues** while **adeptly handling intricate business queries**, ensuring seamless trading activities.
- Handled full ownership** of the Trade Approval project in later stages, directly engaging with business stakeholders to translate business requirements into efficient solution.

Solutions Developer - Framework Team

PCCW Solutions | Hong Kong

Aug 2022 - October 2022

(Java, Springboot, Redis, ReactJS)

- Developed a robust **virus scanning module** used across the EMPF application to validate incoming payloads from users.
- Helped with integration of **IAmSmart Single Sign-On (SSO) solution**, enabling seamless and secure access.
- Developed Redis wrappers to support automated password changes with CyberArc.

Full Stack Developer - Intern

Peeba | Hong Kong

June 2021 - May 2022

(ReactJS, TypeScript, NodeJS, Postgres)

- Developed end-to-end features for a **wholesale ecommerce** platform, connecting **3000+ brands & 30,000+ retailers**. Transformed Figma designs into high performing features using React, MUI, NodeJS, and Postgres.
- Proposed and executed **migration of company's email infrastructure** from Mailchimp to SendGrid, after in-depth GAP analysis, saving over **US\$5,000 annually**.
- Spearheaded the end-to-end implementation of a highly effective **targeted email campaign** for the company, driving a **20% increase in user engagement**.
- Implemented task automation pipelines via Apache Airflow, streamlining processes across teams.

Full Stack Developer - Intern

Hospital Authority | Hong Kong

Sep 2020 - May 2021

(ReactJS, Java, JUnit, MySQL)

- Enhanced UI of a critical Covid medical equipment sharing application across Hong Kong hospitals.
- Led Proof of Concept migration from SQL Server to MySQL for multiple applications.
- Established a robust **testing pipeline** using **JUnit and Cucumber** facilitating comprehensive, scenario based testing.

Projects

Privacy Focused Collaboration System using Machine Learning

- Implemented a Federated Learning-based system, enabling secure collaboration among pharmaceutical companies for drug development research while eliminating the need for data sharing.
- Implemented the application using a containerized approach through Docker, ensuring easy sharing and scalability for future enhancements.

Honors & Accolades

Engagement Award Winner | HackUST

2022

Champion | City Hack

2021 | 2022

External Vice President | Indian Student's Association, CityU

2020 - 2021