

# Ho Hin Siu

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## EDUCATION

### NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Aug 2023 - Present

#### *Bachelor of Information Systems (Hons) and Business Administration*

- Grade Point Average: 4.64/5.00
- NUS Merit Scholarship
- Relevant Course Work: Data Structures and Algorithms, Object Oriented Programming, Enterprise Systems Architecture, Server-Side Design and Development for Enterprise, Data Management and Visualization (MySQL and Tableau), Digital Platform and Business Integration

## WORK EXPERIENCE

### CLEARSTREAM

Dec 2022 - May 2023

#### *Corporate Actions Intern (Equity Linked Notes)*

- Collaborated with team lead in enhancement of existing Robotic Process Automation and Excel VBA in place, increasing volume handled by over 25%, and expedited redemption process by 15%.
- Processed redemption of Equity-Linked Notes valued over \$1 million by more than 15 bank issuers, settling cash and equity payouts of over \$10,000 to clients.
- Liaised with over 15 bank issuers and 10 issuer agents to coordinate redemption of notes, enquiring on details regarding clients, terms and conditions of notes, and different payout methods.

## PROJECT EXPERIENCE

### HOTEL RESERVATION SYSTEM

October 2024 - November 2024

#### *Jakarta EE Application*

- Designed and Developed an End-to-end software system with robust architecture using Jakarta EE with a multi-tiered approach to ensure performance and maintainability for hotel reservations operations through CLI.
- Designed and implemented relational database models using JPA with strict adherence to business rules, ensuring data integrity and consistency.
- Built SOAP-based web services to enable seamless integration with third-party reservation platforms and external systems, ensuring robust data exchange and interoperability across different platforms.
- Conducted comprehensive unit testing using Junit, achieving 20% reduction in post-deployment defects.

### AI-BASED STOCK PRICE PREDICTION MODEL

October 2024

#### *Personal Project*

- Developed a stock market prediction model using Python, employing pandas for data preprocessing and analysis and real-time stock price retrieval via APIs.
- Built a Recurrent Neural Network (RNN) with Long Short-Term Memory (LSTM) layers for time-series forecasting using TensorFlow and Keras.
- Applied key machine learning and AI concepts, including data preprocessing, deep learning, and predictive analytics, to design and optimize the model.
- Utilized NumPy, Matplotlib, and Scikit-learn to enhance data processing, visualization, and performance evaluation.

### NUS INDEPENDENT SOFTWARE DEVELOPMENT PROJECT (ORBITAL)

May 2024 - August 2024

#### *PayLeh Web Application*

- Developed an expense management web application following SDLC and Agile practices using React.js, Java, MongoDB, offering features like user account authentication, expense tracking, group debt simplification.
- Documented the software engineering process thoroughly, covering requirements, design, development, and testing phases, ensuring clear project tracking and transparency.
- Carried out elaborate user testing to refine the app and improve the UI/UX, improved user experience by 20%.

## SKILLS AND INTERESTS

### Programming Languages

Java, Python, R, SQL, HTML, CSS, JavaScript

### Database

MySQL, MongoDB

### Frameworks & Tools

Jakarta EE, React.js, Git, Tableau, SOAP Web Services

### Languages

Fluent in English, Mandarin, Cantonese

### Interests

Street Dancing, Table Tennis, Mahjong

