

# Lee Yiting, Celest

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## SUMMARY

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Software Engineer specialising in the optimisation and enhancement of campus solutions through data-driven approaches and innovative technologies. Proficient in data visualisation, NLP, data modelling, and task automation.

## SKILLS

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**Software Development:** Java, Spring Boot, Hibernate, HTML, CSS, JavaScript, Angular

**Python:** Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, NLTK, Selenium, BeautifulSoup

**R:** Dplyr, TidyR, Readr, Ggplot2, Shiny

**SQL:** PostgreSQL, MySQL, MSSQL

**Data Visualisation:** PowerBI (Power Query, DAX), Tableau

**Other Competencies:** Machine Learning, Web Scraping, REST APIs, Proof-of-concepts, PeopleSoft

## EXPERIENCE

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### Software Engineer (Associate Consultant) | HCLTech

July 2024 – Present

#### Enhancement of Campus Solutions, Full-stack Java and PeopleSoft Developer

- Utilise MSSQL and PeopleSoft extensively to perform in-depth root cause analysis and deploy fixes to maintain system stability and reliability.
- Execute enhancements for Campus Solutions by implementing new features and optimising system performance for a smooth data migration.
- Work with cross-functional teams to design and deploy solutions that streamline workflows, resolve portal challenges, and enhance user satisfaction.

### Product Strategy Intern (Risk & Compliance, Managed Services) | Dow Jones Aer Co

June 2023 – August 2023

#### Automation of Managed Services Processes in Web Portal with User-Friendly Login Interface

- Saved over 10 hours of manual work weekly by introducing a Python web automation solution with Selenium.
- Developed and implemented an intuitive login interface with file upload capabilities using Tkinter.
- Effectively communicated complex technical concepts to non-technical stakeholders and delivered proof of concept demonstrations to teams across Product Strategy, Legal, and Risk & Compliance.

### Data Engineer Intern | Cheil Singapore RHQ

September 2022 – December 2022

#### Client: Samsung – Automation of Multilingual Data Pipeline for Google Ads Analysis

- Automated Samsung Z4 and A series multilingual data pipeline with Python, reducing over 20 hours of manual work per month.
- Attained 93% accuracy in translating raw text data from Google Search across four languages using NLP techniques and translation APIs.
- Developed clustering algorithms under specific conditions for text categorisation with 89% accuracy.

## **Data Intern | Handshakes By DC Frontiers**

June 2022 – September 2022

### PowerBI Integration using REST API

- Developed three dashboards enabling 24-hour real-time monitoring using PowerBI (Power Query, DAX).
- Optimised dashboards and enhanced scalability with minimal maintenance.
- Presented and demonstrated a proof of concept to over 10 stakeholders from Data Analytics, Business Development, and Data Engineering teams.

## **PROJECTS**

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### **Sudoku Solver using Image Processing (Work In Progress!)**

Present

- Utilised image recognition techniques to detect and extract Sudoku grids from captured images.
- Implemented algorithms to interpret individual cell values and applied a solving algorithm to complete the puzzle.
- Combined Python libraries like OpenCV and TensorFlow to enable accurate grid detection and digit recognition.

### **Personal Website (Portfolio) – [Link](#)**

Dec 2024 – Present

- Consistently improving the interface to enhance usability and user experience, and to refine my skills.
- Developed a personal portfolio website using Angular, HTML, CSS, and JavaScript to showcase projects and technical skills.
- Integrated dynamic components using Angular to create a seamless and user-friendly browsing experience.

### **SwiftBank – User-Friendly Banking Application (Group-based)**

Oct 2024

- Designed user interfaces with Figma and implemented front-end functionality using Angular for a seamless user experience.
- Implemented JWT token authentication to ensure secure and scalable access control across the application.
- Built and maintained back-end services with Spring Boot and integrated MySQL for secure data storage and efficient transaction handling.

## **EDUCATION**

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### **BSc Data Science & Business Analytics, University of London**

July 2023

Second Class (Upper) Honours

- President, SIM Squash Club  
2022 – 2023
- Flames Award (Excellence in Sports Leadership)  
2022
- Captain, SIM Squash Club  
2021 – 2022