

CECILA CHEW

SKILLS

Languages: English, Mandarin
Programming: Java, Python, TypeScript, SQL, HTML/CSS
Framework: Spring Boot, Angular, Maven
Data & Tools: MongoDB, Redis, Microsoft SSAS
Automation & Testing: Selenium, TestNG, VBA
Others: Docker

EXPERIENCE

- Technical Analyst Programmer (Distribution Performance Management)** | HSBC Life
Jun 2023 – Present
- Created dashboards for distribution sales insights in Excel by using tools such as Power Query, Pivot Table, VBA
 - Performed data preparation and transformation for analysis.
 - Developed internal automation tools using VBA to streamline workflow processes and reduce manual workload, increasing efficiency for the Distribution Sales Support team.
 - Worked closely with team members to understand pain points and build tools that improved productivity.
- Associate Software Engineer** | VISA Singapore Oct 2023 – Oct 2024
- Built an NL→SQL system (T5, Python) achieving 85% query accuracy, enabling non-technical users to query databases.
 - Automated chatbot testing and shipped features across backend (Spring Boot) and frontend (Angular), reducing manual QA effort.
 - Implemented a “switch profile” feature for role management, improving usability and security.
 - Generated incentive reports using pivot tables and Microsoft SQL Server Analysis Services, supporting finance decisions.
- Data Analyst Intern** | Wistech Sep 2022 – Nov 2022
- Built dashboards and contributed to AI model training for sales/revenue prediction, enhancing forecasting.
 - Visualized sales data with Python and presented actionable insights to stakeholders.
 - Analyzed key metrics and recommended process improvements.

PROJECTS

- Typing Simulator & Calendar Planning Web Apps**
NUS-ISS 2024
- Developed Angular + Spring Boot web apps for typing simulation and calendar planning.
 - Links: [Typing Simulator](#), [Calendar App](#)

EDUCATION

- NUS-ISS** Singapore
Graduate Diploma in Software Development 2023 – 2024
- Nanyang Polytechnic** Singapore
Diploma in Business Intelligence and Analytics (enter correct years)

INTERESTS

Artificial Intelligence & Machine Learning
Bouldering