

Ming Shun Kwek

Software Student

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Website <https://mingshun98.github.io/Portfolio-Website/>

Computer Engineering Graduate from National University of Singapore and current Singapore Industry Scholar at Micron Technology. Strong communicator with a determined work ethic. Forward-thinking development professional with expertise in Python, Java, SQL and other programming languages. Committed to continuous learning and gaining experience across diverse fields to contribute meaningfully to the world of technology.

Work History

2023-06 - Present

Planning Industrial Engineer (Data Automation)

Micron Semiconductor Asia Pte Ltd

- Managing capacity for CMP manufacturing area by coordinating with senior management on engineering changes and optimizing capital expenditures (CAPEX) for tooling modifications.
- Streamlined departmental workflows by developing Python scripts and managing historical data sets using backend SQL database management, enhancing data retrieval and analysis.
- Leading discussions with Micron's Smart Manufacturing Global Team to develop capacity planning software aligned with current industry practices, intended for widespread use by Micron's planning engineers worldwide.

2021-06 - 2022-02

Java Software Developer (Intern)

Integro Technologies Pte Ltd

- Worked on the Collateral and Limits Management Product (CLIMS), resolving front-end UI issues in JSP by applying industry-standard debugging processes, successfully resolving over 30 issues.
- Investigated backend bugs that used Java Spring and Hibernate frameworks to identify root causes and formulate corrective action recommendations.
- Created, modified, and maintained software documentation and specifications.

2019-11 - 2020-08

Head of Programmes

NUS Raffles Hall Freshmen Orientation Camp

- Coordinated a sequence of programs for 200 freshmen, maintaining communication across multiple departments to ensure smooth operations and resolve conflicting ideas.
- Spearheaded a team of 10 like-minded individuals, resolving conflicting visions and guiding innovation to enhance event flow.

2020-05 - 2020-07

Software Development

NUS Orbital Summer Program

- Developed the SmartTrack savings application in React Native, designed for budget management and featuring enhanced capabilities for seamless expense sharing with other users.
- Achieved Apollo 11 (Advanced) standard certification, demonstrating comprehensive knowledge in software engineering, testing and documentation.

2018-11 - 2019-06

Contracts/Projects Assistant

YL Integrated Pte Ltd

- Analyzed floor plans to calculate the required lighting and fire emergency equipment for tender projects, facilitating accurate purchases and aiming for CAPEX savings.
- Managed communication between suppliers and the company, addressing inquiries regarding quotations and purchase orders.
- Managed and mentored a team of 3 employees, overseeing their training and professional development.

2017-08 - 2018-11

Sergeant, 1st Battalion Singapore Guards

Singapore Armed Forces (National Service)

- Planned mission objectives and collaborated with full-time servicemen to optimize battle plans and develop efficient routes for mission success
- Facilitated the training of 30+ recruits as an instructor, teaching and mentoring enlistees. Transitioned to a leadership role post-graduation from Basic Training, taking responsibility for recruits during their active service.

Education

2019-08 - 2023-06

Bachelor of Engineering: Computer Engineering

National University of Singapore

- GPA: **4.05/5.00**
- Graduated: **June 2023**

2015-01 - 2016-12

High School Diploma

Nanyang Junior College

- Achieved 78.75 RP with 2 H2 Distinctions in Chemistry and Mathematics.

Languages

English

Mandarin Chinese

Skills

Java/ SQL/ Python Programming

HTML/ CSS / JavaScript

Object-Oriented Programming

Effective Communication for Computing Professionals

Data Structures and Algorithms

Code versioning (Git)

Functional Specification documentation

Mobile/ Web Development