Kah Meng Lee

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Software Skills

- **Languages**: Java, C/C++, Python, JavaScript, SQL, Haskell, React, Express
- **Frameworks:** React, Express, Junit, FastAPI, Jest.JS, Tailwind
- **DevOps Skills**: Git, Jira, Docker, Confluence, Babel

Experience

Software Test Engineer

Motorola Solutions, Penang Malaysia   *Sep 2021 – Feb 2022*

- Orchestrated a comprehensive testing program, facilitating seamless communication between cross-functional teams to ensure timely delivery of results.
- Spearheaded a transformative initiative by implementing Python automation scripts, resulting in a 300% enhancement in testing cycle efficiency previously reliant on manual processes.
- Fostered collaboration with diverse teams of electrical engineers across various departments, assimilating novel testing methodologies for automation integration.
- Pioneered effective communication channels between hardware and software teams, instituting over 5 physical meetings weekly to enhance synergy and project alignment.

Education

University of Melbourne

Master of Software Engineering   *Expected 2025*

- Relevant coursework: Algorithms and Data Structures (84%), Object Oriented Software Development (85%), Models of Computation(80%), Machine Learning (82%), AI Planning for Autonomy (80), Security and Software Testing (76%)

Bachelors of Science (Major in Chemical Systems)   *Aug 2017 – Dec 2020*

- Second-Upper Class Honours (WAM: 75.9)

Relevant Project Work

Project - Online Age Care Plan

- Engineered a robust test suite utilizing Jest Js on the Express.js server, enhancing efficiency by automating test scripts and reducing test runtime significantly.
- Authored and executed 40 test scripts, achieving a code coverage of 80%, fortifying our ability to identify and rectify issues pre-deployment.
- Implemented a CI/CD pipeline leveraging GitHub Actions, automating regression testing upon pull request submission
- Architected the backend infrastructure and formulated the routing structure of the project and contributing to the development of multiple backend endpoints

Project - Budget Tracking Web Application

- Engineered a RESTful backend infrastructure using Express JS, dedicated to storing transactional data categorized by transaction types, improving clarity and insight into cash flow management.
- Designed and implemented a dynamic frontend interface with React, enabling the presentation of monthly transactions and highlighting dominant transaction types, facilitating a comprehensive tracking of spending habits for enhanced financial awareness.

Project – Portfolio Website

- Designed and developed a responsive portfolio website from scratch using React and Tailwind CSS, showcasing strong front-end development skills.
- Implemented animations to enhance user experience and engagement, demonstrating proficiency in modern web design principles.
- Demonstrated design and development expertise by personally handling all aspects of the website, including UI/UX design, coding, and deployment.

Project - Pacman Capture the Flag AI

- Developed an AI-agent from the ground up using a Hybrid Monte-Carlo Tree Search and Q-Learning
- Constructed agent outperformed 85% of the competition, as the agent took advantage of machine learning concepts to develop a complex model.