Siew La Pang

Full Stack Developer/ Software Engineer

Versatile Full Stack Developer/Software Engineer with a strong foundation in software engineering and a diverse skill set encompassing academic proficiency in Python and C++, and professional experience in JavaScript and TypeScript. Driven by a commitment to continuous learning and professional growth, currently pursuing a Master of Science in Computer Science (Part-time). Experienced in developing and optimizing backend systems, enhancing user experiences, and implementing Test-Driven Development (TDD) practices. Adept at collaborating in agile environments and delivering high-quality features on time. Passionate about leveraging technical expertise to drive innovative solutions and contribute to impactful projects.

Contact Information

- Location: **Singapore**
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- Portfolio: **https://www.siewla.dev/**
- LinkedIn: **linkedin.com/in/siewlapang**
- GitHub: **github.com/siewla**

Education

- University Technology Malaysia, Malaysia
  Master of Science in Computer Science
  2024 – Current (Part-time - ODL)

- General Assembly, Singapore
  Software Engineering Immersive
  2020

- General Assembly, Singapore
  User Experience Design
  2021

- University Technology Malaysia, Malaysia
  Master of Science in Mechanical Engineering
  2016

- Purdue University, United States
  Bachelor of Science in Mechanical Engineering
  2013

Skills

- **Languages:** Python, JavaScript, TypeScript, C++, HTML, CSS
- **Frontend:** ReactJS, Redux, Storybook, jQuery
- **Backend:** NodeJS, ExpressJS, PostgreSQL, MongoDB
- **DevOps:** AWS, CI/CD, npm private module, Jenkins, Docker
- **Testing:** Selenium WebDriver, Appium, Test-Driven Development (TDD)
- **Tools:** Figma

Work Experience

Saltmine, Singapore
Software Engineer II (Full Stack Developer)
November 2021 - Present

- **Design Library Development:** Conceptualized and implemented a shared private design library used across multiple teams, improving consistency and efficiency in UI development.
- **User Experience Enhancement:** Partnered with product managers to introduce innovative solutions and new features, significantly enhancing user experience.
- **Backend Optimization:** Focused on MongoDB collection normalization to optimize database performance and ensure efficient data retrieval.
- **Agile Team Collaboration:** Actively contributed to an agile team, prioritizing and scoping feature requests to maximize impact. Ensured timely delivery of high-quality features.
- **Mentorship:** Provided mentorship to junior developers, offering guidance and support to enhance their skills and performance.
- **Technical Expertise:** Demonstrated proficiency in TypeScript, JavaScript, PostgreSQL, MongoDB, ReactJS, Redux, Storybook, AWS, npm private modules, CI/CD, and DevOps practices.
- Implemented **Test-Driven Development (TDD)** practices to ensure robust code quality and reliability.

Google x Virtusa, Singapore
Software Test Engineer
February 2021 - November 2021

- **Automation Framework Development:** Led the proof of concept (POC) development for a mobile application test framework using Python and Appium for the MyFiber app on both iOS and Android.
- **Automated Test Cases:** Authored new automated test cases and debugged existing automation for Critical User Journeys (CUJs) on the MyFiber app using Copycat (iOS) and Flow (Android).
- **Selenium WebDriver:** Gained hands-on experience with Selenium WebDriver using TypeScript and Java, enhancing the test automation process.

General Assembly, Singapore
Instructional Associate (Software Engineering Immersive Bootcamp)
November 2020 - June 2021 | August 2021 - February 2022 | March 2022 - November 2022

- **Student Guidance:** Collaborated with the Lead Instructor to guide students through an intensive, transformational learning journey, helping them transition into software engineering careers.
- **Curriculum Delivery:** Supported the delivery of a comprehensive JavaScript-centric full-stack web development curriculum, covering MERN, NERDS, and Django stacks.
- **Project Support:** Assisted students in developing at least two full-stack applications as part of their graduation requirements, ensuring high-quality project outcomes.