Jason (Cheng) Liang (Permanent Resident)

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**Objective** Highly skilled software engineer with expertise in python and JavaScript. Offering more than 3 years of experience in the IT industry, I am seeking an opportunity with a growing organization that will utilize and enhance my knowledge in software testing while providing essential growth opportunities.

**Skills Software Testing:** Proficient in various software testing methodologies including black-box testing, white-box testing, integration testing, regression testing, and user acceptance testing.

**Automation Testing:** UI Automation Testing, API Automation Testing

**Source control:** GitLab, Git Hub

**NoSQL:** MongoDB

**Programming language:** Python, PHP, JavaScript**,** Python**,** HTML, CSS

**Relational Database:** MySQL, PostgreSQL **Microsoft Office Tools:** Excel, Word, PowerPoints **Software:** Visual studio, Atom

**Framework**: Flask, Laravel**,** .NET core

**APIs and Web Services:** Experience in building and consuming APIs (Application Programming Interfaces) to facilitate communication between different software systems.

# Working Experience Software Development Engineer in Testing Oct 2023 – Present TIKTOK AUSTRALIA PTY LTD

Entertainment Providers & Short Video Platform

# Tasks:

* Design and implement a robust testing framework (Pytest) utilizing Object-Oriented principles, including polymorphism, to promote code reuse, flexibility, and scalability in test automation.
* Integrate automated tests into CI/CD pipeline to ensure tests are executed automatically with each code commit or deployment.
* Design and implement a robust testing framework utilizing Object-Oriented principles, including polymorphism, to promote code reuse, flexibility, and scalability in test automation.
* Write automated tests specifically targeting UI components (e.g., buttons, forms, dropdowns) to ensure they behave correctly and maintain consistency across the application.
* Establish a feedback loop where test results and issues discovered during automation testing contribute to iterative improvements in both testing strategies and application quality.
* Design and implement API automation testing with valid test cases covering positive, negative, edge, integration, performance, and security scenarios.
* Execute regression tests to validate the stability of software after code changes or updates.

# Results

* Developed and implemented UI automation processes, resulting in a 80% reduction in manual testing efforts while maintaining or improving test coverage and accuracy.
* Developed and implemented an automation framework to streamline the creation and execution of automated test cases, significantly reducing the time required to write and deploy automation scripts.
* Custom Cypress test commands encapsulate frequently used testing functionalities, reducing the time required to write new UI automated cases by 50%.
* Implemented Pytest-based (python) API automation testing with comprehensive test cases covering positive, negative, edge, integration, performance, and security scenarios, resulting in a 95% test coverage and ensuring robust software reliability and release confidence.

# Software Developer Sep 2021 – Sep 2023

**IMS Integrated Monitoring Systems, Maroochydore, Queensland, Australia**

IT Services and IT Consulting Company

# Tasks:

* Developed and maintained **PHP** web applications using Laravel framework, **React.js** and JQuery.
* Participating in daily scrum meetings, sprint planning, bug fixes and implementing new features.
* Assisted in troubleshooting and resolving backend & frontend issues and bugs.
* Conducted code reviews and ensured adherence to coding standards and best practices.
* Designed and implemented efficient database schemas and optimized **SQL** queries for performance.

# Results

* Received recognition for exceptional customer service, consistently achieving high customer satisfaction scores and positive feedback.
* Assisted in the design and development of a new feature that increased system efficiency by **30%**, optimizing performance and enhancing overall productivity.
* Implemented a bug-fixing process that reduced the average resolution time by **20%,** improving the software's stability and user experience.
* **150 +** tickets solved and improved the system’s performance.
* Implemented automated testing processes, reducing manual testing efforts by **50%** and improving the overall quality and reliability of the software.

**Education**

# Master of Information Technology Mar 2020 – Jul 2021

**University of Sydney, Sydney** **Achievements:**

Achieved a Distinction average in programming related subjects:

* COMP9007 Algorithms
* COMP9103 Software Development in Java
* COMP5216 Mobile Computing

# Bachelor of Science in Information Technology Mar 2017 – Nov 2019 University of Technology, Sydney

**Achievements:**

Achieved a Distinction average in programming related subjects:

* 31748 Programming on the Internet
* 41889 Application Development in the iOS Environment
* 31927 Application Development with .NET
* 31251 Data Structures and Algorithms