

# LEI JIAYING

## Full Stack Developer | Web & Mobile Development

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### PROFESSIONAL PROFILE

A motivated Full Stack Developer with a Bachelor of Science (Honours) in Computer Science (Web and Mobile Development) and hands-on experience across the full software development life cycle — from application development and implementation to testing, maintenance, and documentation. Proficient in Python and JavaScript, with front-end experience in React and Angular, and back-end development using Node.js and REST API design. Experienced with relational databases (PostgreSQL, MySQL) and NoSQL databases (MongoDB, Firebase), containerisation with Docker, and cloud platforms including AWS. Familiar with Agile delivery methodologies and version control using Git. A proactive learner committed to writing clean, secure, and efficient code and staying abreast of emerging technologies.

### TECHNICAL SKILLS

Front-End	HTML5, CSS3, JavaScript (ES6+), TypeScript, React, Angular
Back-End	Node.js, Python, REST API Development
Databases	PostgreSQL, MySQL, MongoDB, Microsoft SQL Server, Firebase (Firestore)
DevOps & Cloud	Docker, AWS (Academy Cloud Foundations), Git, GitHub
UI/UX Design	Figma, Adobe XD, Sketch
Methodologies	Agile, Scrum, SDLC, Software Testing & Documentation
Soft Skills	Problem-solving, Analytical Thinking, Clean Code Practices, Attention to Detail

### PROFESSIONAL EXPERIENCE

#### DevOps & Software Testing Intern

Apr 2020 – Jan 2021

*Toppan Ecquaria | Singapore*

- Conducted systematic website testing to identify and document software defects, improving overall platform functionality and ensuring a seamless user experience across multiple browsers and devices.
- Performed troubleshooting and debugging of web application issues, working closely with the development team to triage and resolve defects in a timely manner.
- Leveraged SQL to extract, transform, and query data from relational databases, generating reports and actionable insights to support business decisions.
- Utilised Docker to create, deploy, and manage containerised environments for testing and development, ensuring consistent and reliable deployments.
- Maintained clear documentation of test cases, bug reports, and data findings to support ongoing development and quality assurance processes.

### PROJECTS

#### Task Management Mobile Application

*Technologies: React, Node.js, Firebase Firestore, REST API, Adobe XD, Git*

- Designed and developed a full stack mobile application for content creators to manage tasks, events, projects, and finances — handling both front-end UI and back-end data logic.
- Built RESTful APIs using Node.js to handle user authentication, task CRUD operations, and real-time data synchronisation with Firebase Firestore.
- Designed the database schema in Firebase to support multi-user access with role-based data security rules, ensuring data integrity across sessions.
- Created high-fidelity UI/UX prototypes in Adobe XD, reducing design iteration cycles and delivering a visually cohesive and intuitive user interface.

- Managed source code and version history using Git, maintaining clean commit practices throughout the development lifecycle.

### Point of Sale (POS) System Mobile Application

*Technologies: Adobe XD, Figma, MySQL (database design)*

- Conceptualised and designed a full wireframe prototype of a Point of Sale system for small businesses at pop-up events, covering checkout, inventory, and sales tracking flows.
- Designed the relational database schema in MySQL to support product catalogues, transaction records, and sales reporting.
- Developed detailed user flows, interaction models, and responsive UI layouts in Adobe XD and Figma, validated through usability testing sessions.

## EDUCATION

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### Bachelor of Science (Honours) in Computer Science (Web and Mobile Development)

Apr 2022 – Oct 2024

*Singapore Institute of Management (SIM UOL)*

### Diploma in Information Technology

May 2014 – May 2016

*Temasek Polytechnic*

## CERTIFICATIONS

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### AWS Academy Graduate – AWS Academy Cloud Foundations

2022

*Amazon Web Services*

### Sketch Master Course

2021

*Sketch*

## COMMUNITY SERVICE & CO-CURRICULAR ACTIVITIES

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### SIM UOL Student Council

2024

Contributed to student governance and campus life initiatives at the Singapore Institute of Management.

### Temasek Foundation SCALE – Specialist in Community Action and Leadership Exchange

2018/2019

Selected for a leadership and community service programme in Vietnam, developing cross-cultural communication and leadership skills.

### Global Study Trip to Thailand (P2A – Passage to ASEAN)

2019

Participated in an international study trip to Rangsit University, gaining regional exposure and intercultural competencies within the ASEAN context.

## HOBBIES & INTERESTS

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Photography | Arts & Craft | UI/UX Exploration | Tech Trends & Innovation