

# Tsang An Lee

Reading, United Kingdom

☎ +44-7467319807 | ✉ tsanganlee@gmail.com | 🌐 github.com/andy0427s | 🔗 linkedin.com/in/tsang-an-lee

## OBJECTIVE

Master's student in Computing at Cardiff University, currently on a one-year placement at Lifecycle focusing on backend development. Skilled in Java, Spring Boot, and database management. Seeking a graduate role in software engineering to further hone my technical skills and contribute to innovative projects.

## EDUCATION

<b>Cardiff University</b> <i>Master of Science in Computing with placement</i>	Sep. 2022 – Present Cardiff, United Kingdom
<b>Institute for Information Industry</b> <i>Web development bootcamp</i>	Jan. 2022 – June. 2022 Taipei, Taiwan
<b>Ming Chuan University</b> <i>Bachelor of Business Administration in International Business</i>	Sep. 2012 – June. 2016 Taipei, Taiwan

## SKILLS

**Languages:** Java, Python, SQL, HTML/CSS, Javascript

**Technologies:** Spring Boot, Flask, Vue.js, MySQL, PostgreSQL, MongoDB, Linux, Git, Maven, Hibernate

**Tools:** Jira, Bitbucket, Slack

## WORK EXPERIENCE

<b>Software engineer placement</b> <i>Lifecycle Software Ltd</i>	Sep. 2023 – present Newbury, United Kingdom
<ul style="list-style-type: none"><li>Developed new functionalities for eWarehouse (EW), a high-volume billing platform, using <b>Java</b> and <b>Spring Boot</b> Framework. Implemented SOLID design principles and employed <b>JUnit</b> for rigorous unit testing, achieving enhanced code quality and maintainability.</li><li>Performed database CRUD operations in <b>PostgreSQL</b> and <b>MongoDB</b>. Integrated <b>Hibernate</b> for object-relational mapping and utilized Datagrip for advanced database management, contributing to optimal data integrity and performance.</li><li>Built and debugged <b>RESTful</b> APIs essential for seamless communication between different Lifecycle modules. Utilized <b>Postman</b> for endpoint testing, <b>Swagger</b> for API documentation, and leveraged <b>JUnit</b> and <b>Mockito</b> for creating and executing test cases that simulate real-world scenarios.</li></ul>	
<b>Software engineer intern</b> <i>Therapyworks</i>	Feb. 2023 – Apr 2023 South Wales, United Kingdom
<ul style="list-style-type: none"><li>Designed and implemented seamless and intuitive user interface components for the Therapyworks physiotherapy app using <b>Vue.js</b>, enhancing overall user experience.</li><li>Implemented key features for the Therapyworks physiotherapy app, including exercise tracking, appointment scheduling, and video tutorials, using <b>Flask</b> and <b>Python</b> to enrich user engagement and functionality.</li></ul>	

## PROJECTS

<b>Office Management System</b>   <i>Spring Boot, PostgreSQL, JavaScript, Vue.js</i>
<ul style="list-style-type: none"><li>Developed a web application using the <b>Spring Boot</b> framework, following the MVC architecture, for an office management service.</li><li>Built an <b>Ajax-based</b> frontend utilizing <b>Vue.js</b>, Axios, and Element Plus for a responsive and modern UI design.</li><li>Integrated <b>PostgreSQL</b> for database operations, employing <b>Hibernate</b> as the ORM framework.</li><li>Utilized HikariCP for efficient and performant database connection pooling, integrated seamlessly within the Spring Boot ecosystem.</li><li>Deployed the backend application using Spring Boot's embedded Tomcat web server.</li></ul>
<b>Mobile Chatbot Application</b>   <i>Python, HTML/CSS, Flask, PostgreSQL</i>
<ul style="list-style-type: none"><li>Created a mobile application in social media(Line) with its official messaging APIs</li><li>Utilized <b>Flask</b> framework with <b>Python</b> to develop the web application</li><li>Connected <b>Azure</b> cognitive service API to analyse uploaded recordings from mobile application and send immediate feedback to the users</li><li>Stored data in <b>PostgreSQL</b> with <b>SQLAlchemy</b> as ORM framework</li><li>Deployed the backend application in <b>Heroku</b> server</li></ul>