

# Songzhe Li

+61-423473500

roy.songzhe.li@gmail.com

<https://github.com/fs0c13ty-iwnl>

[linkedin.com/in/roy-songzhe-li-6432391b3](https://www.linkedin.com/in/roy-songzhe-li-6432391b3)

## CAREER PROFILE

First-Class Honours graduate in Computer Science from the University of Adelaide. Demonstrated hands-on experience with Machine Learning Tools and Full Stack Web Development, along with extensive skills in LLM application development and DevOps skills. Aiming for a role that fosters challenges and innovation. Currently based in Adelaide but willing to relocate. Holding a valid working visa until Nov 2027.

## EDUCATION

### Bachelor of Computer Science (Cybersecurity Major)

The University of Adelaide | 2019 – 2022

### Honours Degree of Bachelor of Computer Science (GPA 7.0/WAM 88.5)

The University of Adelaide | 2022 – 2023 | **Award:** First-Class Honours

## TECHNICAL SKILLS

### Experienced

- **Python:** Analysis (Pandas), Web Scraping (Requests), Automation (Selenium), ML and Jupyter Notebook
- **Machine Learning:** Scikit-learn for data-driven analysis, PyTorch & TensorFlow for deep learning tasks
- **Full-stack Web Developing:** Vue.js, Restful API & Node.js for the development, MySQL for database

### Skilful

- **DevOps:** Git for version control, AWS for cloud deployment, CI/CD with GitLab
- **Other Techs:** JavaScript, Java, JUnit, Docker, React.js, Hadoop, Penetration Testing (Kali Linux)

## PROJECTS

### An NLP and LLM based Auto Form-Filling Method

Honours Year Research Project, Supervised by A/Prof. Lingqiao Liu

- **Keywords:** Natural Language Processing, Prompt Engineering, OpenAI API, LLM Development, LLaMa3
- **Description:** This project combined tradition NLP techniques and Large Language Models, using Pre-trained word embeddings for PDF vectorization and cosine similarity for relevance assessment, coupled with LLMs for precise content generation, to automate the PDF form-filling process. Developed in Python.

**Thesis Link:** <https://github.com/fs0c13ty-iwnl/HCSThesis> **Introduction Video:** <https://youtu.be/15oGvP-T6p4>

### Travel Agency ERP (Enterprise Resource Planning) System Web Application

Freelance Group Project, Team Leader, Project Manager and Front-end Developer

- **Keywords:** Agile Development, Project Management, Vue.js, RestFul API, Cloud Deployment (AWS)
- **Description:** Led a team of four in developing an ERP System web app for a travel agency, serving as project manager. Handled contract drafting, client liaison, task assignment, and front-end design and development. Successfully deployed the product, the team was rewarded with a significant commission.

### An Object-Detection based Aiming AI in First-Person Shooter Games

Individual Course Project, Scored a High Distinction (90)

- **Keywords:** YOLO, Pytorch, Dataset Processing, Model Training and Deployment, Performance Testing
- **Description:** The project applied object detection model to FPS game with utilizing a custom annotated and optimized dataset for training, adding PID algorithm, created a human-like auto aiming agent.

**Introduction Video:** <https://www.youtube.com/watch?v=VgSEoeEUHio>

### Open-source Project Troubleshooting (OpenMMEngine by OpenMMLab)

Group Project, Team Member (DevOps, Community Communication & Documentation)

- **Keywords:** Gradient Descent, PyTorch Scheduler, DevOps, Unit Testing, Git Operations
- **Description:** Collaborated with the OpenMMLab Community, we implemented an optimizer wrapper to address the issue of false learning rate. My role was to manage Git operations, enhance DevOps workflows, and community communications. Our collective effort was successfully merged into the main branch.

## REFEREE

Available upon Request