

TIANBO SHU

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PROFILE

I am a keen developer with great communication skills and a strong foundation in web development, and proficiency in frameworks. I completed my Bachelor degree in 2021, and will be completing my Masters of Computer Science in June 2024. I completed an internship in 2022 and would love to gain more professional experience, both for my growth and development, and ideally to find a company I can grow with and contribute to. I hold a student visa, which enables me to have unlimited working hours during the summer break.

PROFESSIONAL HIGHLIGHTS

- Award-winning Computer Science student (2019-2024), with a strong foundation in web development (HTML, CSS, JavaScript) and proficiency in frameworks like React.js, ASP.NET, and Spring
- Experienced in MySQL, PostgreSQL, and Linux environments, with a demonstrated ability in Agile, SOLID, and TDD. Capable of applying data structures and algorithms to solve complex problems
- Effective communicator and team player, experienced in cross-functional collaboration and technical feedback
- Practical industry experience as a Java Developer Intern, with hands-on exposure to Agile software development and high-quality software product delivery

EDUCATION

Master of Computer Science

University of Melbourne, Melbourne, VIC

07/2022 - 06/2024

- Recipient of Melbourne Engineering and Information Technology Foundation Scholarship, 2022-2024
- 81.875 WAM

Bachelor of Science in Computer Science

University of Waikato, Hamilton, New Zealand

02/2019 - 11/2021

- Dean's List, 2021
- Dean's List, 2020
- Recipient of Undergraduate High Achievement Bursary for International Students Award, 2019
- 8.67 / 9 GPA

RELEVANT EXPERIENCE

Java Developer Intern

Yunji Technology

01/2022 - 04/2022

Beijing, China

- **Addressed data inconsistency between CRM systems and company databases through API integration**
Developed batch processing within REST APIs, reducing API calls by 75%. This integration significantly enhanced the efficiency and consistency of data flow between systems
- **Reduced code redundancy in existing projects**
Conducted code refactoring using the SOLID principles, leading to a 20% reduction in redundant code. This optimization resulted in improved performance and maintainability of the software

- **Developed database structures for new web applications**

Designed over 20 unique tables for different objects required in the company's website processing logic, and implemented indexing for efficient data retrieval. The database structures were noted for their efficient and robust design

SKILLS

Programming Languages	Java, C#, Python, PHP, JavaScript
Web Development	Responsive Web Design, REST API Deployment
Frameworks	React.js, .NET MVC, Spring Technologies
Database Management	MySQL, PostgreSQL
Software Development	Agile Methodologies, SOLID, TDD, Version Control
Others	Machine Learning, Data Structures & Algorithms, AWS

PROJECTS

e-Tickets Web Application using ASP.NET Framework

A web application for purchasing movie tickets online. Built using MVC architecture, Bootstrap, and Azure SQL database. Some functionalities include but are not limited to:

- Create, edit, and delete movies/actors/producers/cinemas
- Register for a new account and log in
- Add tickets to the cart and integrate Paypal API for checking out
- User authentication and authorization

(Code available at <https://github.com/tonyshuoo1/eTickets>)

Automated Fact-Checking System for Climate Change Claims

Given a claim related to climate change, first, find relevant evidence (approximately 3 to 10 pieces of evidence) from an extensive knowledge base (approximately over 1.2 million groundtruth). Then based on the relevant evidence retrieved, classify the claim as SUPPORTS / REFUTES / NOT_ENOUGH_INFO / DISPUTED. Some main techniques employed are:

- Transformer-based pre-trained language models: Sentence Transformer, DistilBERT, T5, RoBERTa
- Key-word-based similarity measurement: TF-IDF, BM25+
- Pre-processing and post-processing: stop-word removal, self-training, and top-k evidence selection

(Model performance was ranked 7th among over 400 participants, which is top 2%)