



JIAJUN YU (JASON)

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About Me

An enthusiastic and passionate computer science final year student at the University of Adelaide with coding experience and strong interests in teaching and researching aims to tackle real-world problems with excellent software engineers.

EDUCATION

B.S. in Computer Science | The University of Adelaide, Australia | GPA: 7.00 / 7.00 WAM: 93.06% Feb 2021 – Nov 2023

Foundation Studies Program | The University of Adelaide College, Australia | Overall Score: 97% Apr 2020 – Feb 2021

WORK EXPERIENCE

Student Researcher | The University of Adelaide, Australia Nov 2022 – Present

- Research Topic: Facilitate the use of code quality feedback tools for novice programmers (Supervisor: Dr. Cruz Izu)
- Use problem solving skills to analyse and visualise data, develop new code quality checkers to further detect code smells

Academic Tutor | JR Academy, Australia Jul 2021 – Present

- Prepare and deliver content to enhance university students' understanding in relation to relevant concepts and theories
- Formulate customized plans for university students to support future academic, personal, and professional development

PROJECTS

Adelaide CS Community | Java, Spring Boot, SSM, MySQL, Redis & Kafka |   Dec 2022 – Feb 2023

- Built a full-stack forum application with Java and Spring Framework. Features include managing users, posting content, filtering sensitive words, commenting on posts and replies, upvoting and following, publishing system notifications, etc.
- Majorly worked on backend implementation (Developed data access objects, services, controllers, utilities) and testing.

Adelaide Summer Research Project | Python, BASH & Microsoft Excel |   Nov 2022 – Present

- Familiar with the use and features of two code quality checking tools. Used BASH programs and Python to analyze outputs of Pylint and Hyperstyle generated from codes submitted by students (Jupyter Notebook, Python, Java files), and used Excel to visualize the data. Developed a tool to filter Pylint error codes in groups by modifying the configuration file.
- Developed 'CPPAnalyzer' by analyzing the abstract syntax tree to check rules that cannot be detected by current tools.

Synthetic Watermelon | C# & Unity |  Nov 2022 – Dec 2022

- Built an interactive mini-game based on Unity engine that allows users to control the drop of a randomly generated fruit.
- Used C# to implement behaviors of controlling the game, generating & synthesizing same fruits, calculating game scores.

Social Event Planning Webapp | MySQL & Node.js |   May 2022 – Jun 2022

- Built a full-stack social event planning web app in a team of four. Features include managing users, creating, editing, deleting events, specifying availability, confirming attendance, email verification, account settings, searching, etc.
- Majorly contributed to database design & management, backend development, testing and presenting the application.

What are the prevailing attributes of UFO | Python, Pandas, Matplotlib & Microsoft Excel |  Jul 2021 – Sep 2021

- Conducted a data visualisation project to identify and summarize the characteristics of UFOs (Undefined Flying Objects) by analysing the word frequencies of eyewitness descriptions in a dataset from Kaggle containing 134,421 records.
- Delivered 3 concise presentations (Pitch, First Cut Demo & Final) and 2 detailed reports (Feedback & Final) in 1.5 months.

ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

- **Societies and Clubs** --- Computer Science Club, Competitive Programming Club, FOCUS Adelaide (Bible Study Club)
- **Chinese IA Volunteer Tutor (Mar 2021 – Jun 2021)** --- Volunteered as a tutor for one semester in the Chinese IA course at the university to help non-native Mandarin speakers to pronounce words correctly and have basic communication skills.
- **Global IQ Connect Program (Mar 2021 – Apr 2021)** --- Participated in a 5-week extra-curricular program to build and develop intercultural communication skills and cultural intelligence by engaging with students of different backgrounds.
- **Recipient of Adelaide Summer Research Scholarship (2022)** --- Given the opportunity to research computer education.
- **Recipient of The University of Adelaide Executive Dean's Award for Academic Excellence (2022)** --- WAM ≥ 90
- **The University of Adelaide College Foundation Year Top Student in Overall Dux (2021)** --- Graduated from the University of Adelaide College (Foundation Year Program) with an overall score of 97% (1st).

SKILLS

Proficient: Java, C++, Python

Experienced: C, C#, MATLAB, HTML, CSS, JavaScript, MySQL, Git, Linux