JIAJUN YU (JASON)

Adelaide, SA | jiajunyu@yahoo.com | 0466 659 310 | **LinkedIn** | **GitHub** | **Personal Blog**

EDUCATION

Bachelor of Computer Science | The University of Adelaide, Australia   **Feb 2021 – Nov 2023**
- GPA: 7.000 / 7.000   (High Distinction Average)
- WAM: 93.063%
- Computer Science Club
- Competitive Programming Club

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 & Elasticsearch | **Dec 2022 – Present**
- Built a full-stack forum application with Java and Spring Framework. Features include managing users, posting content, filtering sensitive words, commenting on posts, like and follow, ranking, searching, 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 website application in a team of four. Features include managing users, creating, editing events, searching, specifying availability, confirming attendance, email verification, account settings, etc.
- Majorly contributed to database design & implementation, backend development (MySQL, Node.js), and testing.

What are the prevailing attributes of UFO | Python, Pandas, Matplotlib & Microsoft Excel | **Jul 2021 – Sep 2021**
- This data visualisation research project identified and summarized 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 nice presentations (Pitch, First Cut Demo & Final) and 2 detailed reports (Feedback & Final) in 1.5 months.

ADDITIONAL EXPERIENCE AND ACHIEVEMENTS

- **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.
- **The University of Adelaide Executive Dean's Award for Academic Excellence (2022)** --- Weighted Average Mark ≥ 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%, English for Academic Purposes: 89%, Critical Thinking: 98%, Math Methods: 99%, Physics: 99%, Specialist Math: 100%

SKILLS

Proficient: Java, C++, Python   **Experienced:** C, C#, MATLAB, HTML, CSS, JavaScript, MySQL, Git