Jiayu Hu

jiayuhu@cmail.carleton.ca
jennyho5.github.io/personal-site

EDUCATION

Bachelor of Computer Science   **Sep 2022-Apr 2024**
Carleton University, Ottawa, ON, Canada
- Fourth-Year Standing, CGPA: **11.50/12.0 (95.83%)**

Bachelor of Management in Accounting   **Sep 2018-Jun 2022**
Zhongnan University of Economics and Law, Wuhan, China
- Final GPA: 3.8/4.0 (89.84%)

AWARDS AND SCHOLARSHIPS

- 2022-2023 Clarence C. Gibson Scholarship
- 2022-2023 Deans List
- 2022 Discover Kanata Hacks, 1st-Place
- 2023 Hack the Hill Game Jam, 2nd-Place

TECHNICAL SKILLS

- Programming languages: Python, Java, C, C++, C#, HTML, CSS, JavaScript
- Technical tools: Linux, Node.js, React.js, Postman, SQL, MongoDB, Git, GitHub, Jira, Confluence, Visual Studio

WORK EXPERIENCE

Software Engineer Intern | TD Bank, Toronto, ON   **May-Aug 2023**
- Designed and developed **business dashboards** for the VP using **JavaScript** and **Rest API** of **Jira** and **Confluence**, resulting in a 50% increase in data accessibility and a 20% improvement in decision-making efficiency
- Worked as a training coordinator to implement **Agile methodologies** in the fraud team, contributing to the **software development lifecycle** of various fraud products

Audit Intern | Ernst & Young, Shanghai, China   **Jan-Feb 2021**
- Finalized audit reports and financial statements of 2 publicly listed companies by the end of the accounting year
- Effectively communicated financial findings and insights with professionals and stakeholders, fostering a collaborative and transparent work environment

PROJECTS EXPERIENCE

Game Developer | Develop at Ubisoft Programming Challenge | Ubisoft Toronto   **Nov 2023-Jan 2024**
- Designed and programmed a feature-rich 2D platformer game on **Windows** in **C++** with clean and simple extensible code and well-managed data flow
- Overcame challenges through effective **debugging**, and integrated third-party libraries for enhanced functionality, highlighting adaptability and problem-solving skills

Game Developer | Mouse in the House 2D Mystery Game   **May 2023-Sep 2023**
- Crafted clean and efficient **C#** code to implement intricate quest, dialogue, and save-load systems
- Utilized **Unity** with customized code and pixel art to achieve a blend of functionality and visual appeal

Game Developer | Nature Calls | Hack the Hill 2023 Game Jam Challenge, University of Ottawa   **Mar 2023**
- Developed engaging narrative-driven gameplay with **Python** and the RenPy library
- Drew dynamic visual game art assets, encompassing character designs and backgrounds

Backend Developer | Chat Server | COMP2406, Carleton University   **Mar 2023**
- Developed a real-time chat server using **JavaScript** and **Node.js** with the socket.io module
- Implemented group and private chat modes for multiple browser clients, enhancing interactive communication

Backend Developer | Word Puzzle | COMP2406, Carleton University   **Feb 2023**
- Engineered a dynamic word puzzle web server utilizing **JavaScript** and **Node.js** built-in modules
- Designed an intuitive drag-and-drop interface, challenging users to arrange scrambled words into the correct phrase order

Full-Stack Developer | co:ver letter | SheHacks+7 Hackathon, Western University   **Jan 2023**
- Built a **web application** utilizing the NLG toolkit **API**, achieving a 70% accuracy rate in generating cover letters based on the job description and resume within seconds
- Demonstrated proficiency in both frontend (**HTML, CSS, JavaScript**) and backend technologies (**Python, Flask**)

Full-Stack Developer | Simple Search Engine | COMP1405, Carleton University   **Sep-Dec 2022**
- Implemented a simple search engine using **Java** and **Python** for accurate keyword-based results from the database
- Created an intuitive **GUI** using JavaFX, enhancing user experience and facilitating seamless interaction

Team Member | Empowering Solar Panel with 5G Network | Discover Kanata Hacks, Ottawa   **Sep-Dec 2022**
- Built **functional prototypes** for a mobile app using 5G and loT to monitor and control the home solar system kit
- Presented the project's technical aspects and potential impact to professionals in **network** fields

Web Developer | Jiayu's Personal Site   **Sep 2021-Present**
- Crafted a dynamic and interactive personal site, leveraging the power of **HTML, CSS, and JavaScript** to showcase a diverse portfolio of projects and artwork on GitHub Pages
- Demonstrated proficiency in **version control** using **Git** and **GitHub**, ensuring consistent updates and maintenance of the website over a span of three years