

Jiayu Hu
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jennyho5.github.io/personal-site

EDUCATION

Bachelor of Computer Science Carleton University, Ottawa, ON, Canada <ul style="list-style-type: none">Fourth-Year Standing, CGPA: 11.50/12.0 (95.83%)	Sep 2022-Apr 2024
Bachelor of Management in Accounting Zhongnan University of Economics and Law, Wuhan, China <ul style="list-style-type: none">Final GPA: 3.8/4.0 (89.84%)	Sep 2018-Jun 2022

AWARDS AND SCHOLARSHIPS

- 2022-2023 Clarence C. Gibson Scholarship
- 2022 Discover Kanata Hacks, 1st-Place
- 2023 Hack the Hill Game Jam, 2nd-Place
- 2023 SheHacks+7 Hackathon, 5th-Place

TECHNICAL SKILLS

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

WORK EXPERIENCE

Software Engineer Intern TD Bank, Toronto, ON <ul style="list-style-type: none">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 efficiencyWorked as a training coordinator to implement Agile methodologies in the fraud team, contributing to the software development lifecycle of various fraud products	May-Aug 2023
Audit Intern Ernst & Young, Shanghai, China <ul style="list-style-type: none">Finalized audit reports and financial statements of 2 publicly listed companies by the end of the accounting yearEffectively communicated financial findings and insights with professionals and stakeholders, fostering a collaborative and transparent work environment	Jan-Feb 2021

PROJECTS EXPERIENCE

Game Developer Develop at Ubisoft Programming Competition Ubisoft Toronto <ul style="list-style-type: none">Designed and programmed a feature-rich 2D platformer game on Windows, showcasing advanced proficiency in C++ for core development, including player controls, collision detection, state machine, tile maps, etc.Overcame challenges through effective debugging, and integrated third-party libraries for enhanced functionality, highlighting adaptability and problem-solving skills	Nov 2023-Jan 2024
Game Developer Mouse in the House Real-Time 2D Game <ul style="list-style-type: none">Crafted clean and efficient C# code to implement intricate quest, dialogue, and save-load systemsUtilized Unity with customized code and pixel art to achieve a blend of functionality and visual appeal	May 2023-Sep 2023
Game Developer Nature Calls Hack the Hill 2023 Game Jam Challenge, University of Ottawa <ul style="list-style-type: none">Developed engaging narrative-driven gameplay with Python and the RenPy libraryDrew dynamic visual game art assets, encompassing character designs and backgrounds	Mar 2023
Backend Developer Chat Server COMP2406, Carleton University <ul style="list-style-type: none">Developed a real-time chat server using JavaScript and Node.js with the socket.io moduleImplemented group and private chat modes for multiple browser clients, enhancing interactive communication	Mar 2023

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 technologies (**HTML**, **CSS**, **JavaScript**) and backend technologies (**Python**, **Flask**)

Full-Stack Developer | Simple Search Engine | COMP1405, Carleton University**Sep-Dec 2022**

- Designed and implemented a simple search engine using **Java** and **Python**, applying the PageRank algorithm 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 IoT 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 | Simon Game**Oct 2021**

- Engineered a dynamic web-based Simon game using **JavaScript**, showcasing advanced play functions and audio integration
- Employed a combination of **HTML** and **CSS** to craft an engaging user interface, ensuring a visually appealing and interactive gaming experience

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