Jiakang (Daniel) Huang

778-929-5227 | Vancouver, BC | jhuang74@students.cs.ubc.ca

https://www.linkedin.com/in/jiakanghuang/ | https://github.com/DanielHuangjiakang

EDUCATION

University of British Columbia (UBC)   Vancouver BC

Bachelor of Science, Major in Computer Science, Minor in Data Science   *Sept. 2022 - May 2026*

- cGPA 2022: 90% | **4.33/4.33 (Dean's List)**
- cGPA 2023: 90% | 4.33/4.33 (In progress)
- **Relevant Coursework:** Systematic Programming Language, Algorithms, Data Structures, Database Systems, Web Development, Mobile App Development, Data Analysis

TECHNICAL SKILLS

- **Programming Languages:** Java, C, C++, R studio, Python, HTML, CSS, Unity, Assembly, Bash, Shell
- **Developer Tools:** Git/Github, Jupyter Notebook, Visual Studio, IntelliJ, R studio, Unity Hub, Terminal
- **Testing Tools:** JUnit, Catch2, Makefile
- **Web development:** WIX, WordPress, Figma, Notion Builder
- **Language Skills:** Fluent in Mandarin, Advanced in English

PROFESSIONAL EXPERIENCE

Website Maintenance [*website*]   Feb 2024 - Present

Building Bridges with Rwanda (BBR) | Founded by Lama Mugabo   *Vancouver, BC*

- Responsible for daily website maintenance using **HTML**, **CSS**, and **JavaScript**.
- Maintaining backend and publishing website with **WIX**.
- Communicate with leaders, update content, and improve layout regularly.
- Learning Rwanda's history, assisting the organization to contribute to **Rwanda's development**.

Full Stack Developer [*website*]   Jan. 2023 – May 2023

Sichuan Kangyile Plastic Company   *Sichuan, China*

- Developed an efficient **Java** framework for inventory intake and output.
- Used **JSON** for backend data storage.
- Developed accessible GUIs and product visualizations with **Java Swing**.
- Provided private software with advanced data visualization and logging for future analysis.

Mobile App Functional Tester   May 2021 - Sep. 2021

Cross-Border Financial Centre, Bank of China   *Sichuan, China*

- **Scenario Testing:** Simulate **hundreds** of diverse scenarios to ensure app functionality.

- **UI/UX Testing:** Ensure app UI elements **display** correctly across devices.
- **Response Time:** Ensure quick app response and fast start-up **loading times**.
- Submitted a **3000** words feedback and test report to the **developers**.

ACADEMIC PROJECTS

Bird Skeleton Species Differentiation | R, Markdown, Jupyter Notebook [*report*] [*code*]
- Modeled data from **tens of thousands** of bird skeletons with **R** to distinguish species, achieving **94%** accuracy.
- Trained our model using the **K**-Nearest-Neighbor **classification** method.
- Used **Markdown** to write a 5-page report in **APA format**.

Academic Success and Parental Education | R, Markdown, Jupyter Notebook [*report*] [*code*]
- Analyzed UC Irvine data in **R** to study how parental education affects student success.
- Used **bootstrapping** and **hypothesis testing** methods to examine parental education's influence on GPA.
- Used **Markdown** to write a 3-page report in **APA format**, demonstrating no significant relevance.

PERSONAL PROJECTS

RateIt | HTML, CSS, JavaScript, SQL [*website*] [*code*]
- Frontend: used **HTML**, **CSS**, and **JavaScript** to build a website for user to create rating categories.
- Backend: used an **SQL** database to store website data, including comments, ratings, and categories.

Warehouse System Survey Form | HTML, CSS, JavaScript [*website*] [*code*]
- Developed a feedback form for a warehouse management system using **HTML**, **CSS**, and **JavaScript**.
- Using **HTML Forms** (dropdowns, radio buttons, checkboxes) for detailed user feedback.

Direct Train Production Setting Analysis | R, Markdown, Jupyter Notebook [*report*] [*code*]
- Using **R** to optimize minimum guaranteed production and actual profit rates.
- Employed **polynomial regression** and derivative analysis to identify **critical points**.
- Provided a 3-page report in **Markdown** with guidance and recommendations to the business.