Juanwei Hu

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Linkedin

Technical Skills

Coding languages: Python, SQL, C, C++, Javascript, CSS, HTML

Tools and Libraries: MySql, VS code, ReactJS, Spark

Work Experience

MedClerx, Irvine, Web Frontend Intern **January 2022 — September 2022**

Figma Mockup:
https://www.figma.com/proto/QFZnhEkKqEpjXGkA2kDKiF/MVP-Patient-Portal-Mock-Up?node-id=56-240&starting-point-node-id=4%3A20&mode=design&t=OQbM1s9JMqyGpB2Q-1

• Designed and established Figma mock-ups to guide the development process, ensuring a clear and efficient workflow for the project.

• Collaboratively developed web front-end features as part of a team of three interns, primarily utilizing Javascript and ReactJS.

• Contributed to various stages of web development, from initial design to final implementation, focusing on user experience and interface design.

• Collaborated closely with senior back-end engineers, contributing to the integration of front-end and back-end systems for optimal functionality.

• Effectively utilized a ticketing system for task assignments and tracking, ensuring efficient workflow and task distribution among team members.

• Managed code quality and version control using GitHub, including frequent commits, pull requests, and branch management.

Projects Experience

Immigration Data Analysis - Python, **September 2023 — December 2023**

CMPT 732 SFU

• Collaborated in a team of four people to analyze and visualize complex immigration data.
• Employed PySpark, a powerful tool for big data processing, to efficiently perform Extract, Transform, Load (ETL) operations on large datasets.
• Focused on creating insightful visualizations to represent various types of immigration data and their outcomes.
• Contributed significantly to the development of interactive and informative visual tools, enhancing the understanding of intricate data correlations.

Multithreading - C, ICS53 UCI **September 2021 — December 2021**

GitHub Repository: https://github.com/juanweih0424/ICS53-multithreading

• Spearheaded the development of a multithreading project using C, showcasing advanced programming and concurrency management skills.

• Using a linked list data structure to hold incoming jobs as a buffer allows for efficient management and processing of tasks in a dynamic, ordered sequence.

• Implemented critical features like thread synchronization and data protection using mutex locks, ensuring thread safety and reliable data processing.

Web Crawler - Python, CS121 UCI **April 2021 — June 2021**

GitHub Repository: https://github.com/juanweih0424/Search-engine

•Utilized Visual Studio Code Live Share for collaborative coding with a team of three, facilitating real-time collaboration, code sharing, and problem-solving, which enhanced team efficiency and coding synergy.

• Developed an advanced search engine featuring a web crawler, indexer, and tokenizer, utilizing Python.

• Implemented a sophisticated tokenizer to enhance the search engine's ability to process and understand user queries. Integrated complex tokenization methods to refine search results, improving user experience.

• Engineered a comprehensive web crawling algorithm to traverse and index web pages effectively.

• Demonstrated strong proficiency in Python and algorithms, contributing to a complex, multifaceted project, proving adept at implementing complex algorithms in a real-world application, delivering a functional and efficient search tool.

AVL Tree and Hash Set - C, ICS46 UCI **April 2021 — June 2021**

GitHib Repository: https://github.com/juanweih0424/AVLset-HashSet

• Developed a deep understanding of balancing mechanisms in AVL trees, including rotations to maintain tree balance, ensuring efficient data access patterns. • Mastered the implementation of hash functions and collision handling techniques in Hash Sets, optimizing for quick data retrieval and manipulation.

• Successfully optimized search, insertion, and deletion operations, showcasing problem-solving skills and attention to detail.

• Demonstrated proficiency in C++ and deep understanding of algorithm optimization.

Education

Master's Degree **September 2023 — Present**

Master in Professional Computer Science

Simon Fraser University, Burnaby

Bachelor's Degree **September 2016 — June 2022**

Informatics and Computer Science

University of California, Irvine

Additional Experience

Gaming Industry:

Professional Overwatch Player **June 2018 — March 2019**

Netease, Cyclone Coupling

• Competed at a high level in the Overwatch Contenders 2018 Season 3 Pacific, representing Cyclone Coupling.

• Demonstrated exceptional teamwork and strategic skills in fast-paced, competitive environments.

National Collegiate Overwatch Player **December 2019 — June 2022**

University of California, Irvine

• Represented UCI in national collegiate Overwatch competitions, playing a key role in a highly skilled team environment.

• Contributed to UCI's reputation in esports through consistent high-performance gameplay and effective teamwork.