Kellan Jiang

📞 437-993-1773 ✉ kuang.jiang@uwaterloo.ca

🔗 https://linkedin.com/in/kuang-jiang 🌐 https://unikerogen.github.io

UNIVERSITY OF WATERLOO

SUMMARY

Experienced software engineer with a focus on front-end development and building user-friendly, scalable web applications. Skilled in optimizing webpage performance and conducting comprehensive testing to ensure smooth, high-quality user experiences. Strong background in UI/UX design and cross-functional collaboration, with additional expertise in developing data-driven products and automating workflows. Proficient in JavaScript, React, HTML, CSS, and Python, contributing to impactful solutions across both front-end and back-end development.

EXPERIENCES

DingSheng Garment Company
Software Engineer

Mar 2023 - Present
Remote

- **Front-end Development**: Led development for web applications using **React**, **JavaScript**, **HTML**, and **CSS**, improving user interaction and application responsiveness.
- **Webpage Testing**: Performed **regression**, **functional**, and **integration testing** for various elements and features of the product, ensuring system stability and minimizing bugs in production environments.
- **UI/UX Design & Testing**: Collaborated with design teams to enhance **UI/UX**, resulting in a **30%** increase in user satisfaction through improved interface design.
- **Database Integration**: Integrated **PostgreSQL** databases with front-end applications to ensure seamless data management, allowing for real-time updates and improved user functionality.

Bell's Welding and Machincal Repair
Software Engineer

Dec 2019 - May 2021
Pennsylvania, United States

- **ETL Pipeline**: Designed and implemented automated **ETL** pipelines using **Python** and **SQL**, reducing data processing time by **50%** and improving the accuracy of business insights.
- **Data Visualization**: Developed interactive dashboards using **Tableau** and **Python** scripts, providing real-time insights for operational efficiency and financial reporting.
- **Automation**: Automated manual data collection and processing tasks, leading to a **25%** increase in productivity by reducing the time spent on repetitive workflows.

PJM Interconnection
Software Engineer

Jan 2018 - Aug 2018
Pennsylvania, United States

- **Documentation & Stakeholder Collaboration**: Developed and maintained comprehensive **technical documentation** for data products and collaborated with stakeholders to ensure alignment with business requirements and user needs.
- **Data Product Development**: Contributed to the development of **data-driven** applications, enabling real-time monitoring and analysis for energy markets, which improved decision-making and system reliability.
- **Software Testing**: Performed extensive **system** and **acceptance testing** to validate system behavior, identify bugs, and ensure reliable software performance across different operational environments.

PROJECTS

Kuang's Place
Independent Project

Mar 2020 - Present
Ontario, Canada

- **Front-end Development**: Created and maintained a personal portfolio website from the ground up using **React**, **HTML**, **CSS**, and **JavaScript**, showcasing projects and providing a smooth user experience with a custom-designed interface.
- **Webpage Testing**: Utilized **performance**, **usability**, and **cross-browser testing** with **Selenium** to ensure the website adhered to modern web standards, was fully responsive, and provided an optimized experience for all users
- **Performance Optimization**: Implemented **lazy loading**, reduced HTTP requests, and optimized images, improving page load times by **40%** and enhancing overall site performance.

Kuang's Cloud
Project Leader

Aug 2018 - Dec 2019
United States

- **Server-Side Development**: Developed a Linux-based **RAID** server using **Python** for **web crawling**, **automation**, and **data processing**, enabling efficient storage management and secure access to personal and collaborative data.
- **Security Implementation**: Established a **VPN** network to secure remote access to the server, ensuring encrypted data transmission and safeguarding sensitive information from unauthorized access

EDUCATION

University of Waterloo
Electrical Engineering | Master | Focusing Field: Machine Learning and AI & Software

May 2021 - Dec 2022
Ontario, Canada

Related Course: AI, Algorithm Design, Optimization, Data Analysis, Data Structure, Software Testing/QA **GPA: 3.8/4.0**

Temple University
Electrical Engineering | Bachelor | Minor: Physics

Aug 2015 - Dec 2019
Pennsylvania, United States

Awards: Dean's List for all semesters, Honor Student **GPA: 3.8/4.0**

SKILLS

- **Software**: C/C++, Python, Java, JavaScript/TypeScript, HTML, CSS, SQL, Swift, MATLAB, Docker, Git, Shell, VBA
- **Tools**: AutoCAD, SolidWorks, OpenCV, Jenkins, Amazon Web Services, Microsoft Azure, Google Cloud Platform
- **Project Management & Collaboration**: Agile, Jira, Technical Documentation, Stakeholder Engagement