



Kellan Jiang

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SUMMARY

Full Stack Web Developer with a Master's in Electrical Engineering and a strong focus on web development, API integration, and database management. Proficient in Python, Java, JavaScript, HTML, CSS, and various frameworks. Experienced in designing user-friendly interfaces, implementing automated testing, and managing CI/CD pipelines.

EXPERIENCE

- DingSheng Garment Company**
Software Engineer

Mar 2023 - Aug 2024
Remote

 - Developed and maintained **web applications** using **JavaScript** frameworks (React, Angular), enhancing user experience and responsiveness.
 - Designed and implemented **RESTful APIs** with **Node.js**, ensuring seamless integration between front-end and back-end systems.
 - Managed **PostgreSQL** databases, optimizing data storage and retrieval processes to improve application performance.
 - Implemented **CI/CD pipelines** using **Jenkins**, automating deployment processes and reducing manual intervention by **50%**.
- Bell's Welding and Mechanical Repair**
Software Engineer

Dec 2019 - May 2021
Pennsylvania, United States

 - Engineered an **ETL pipeline** in **Python** with **PySpark**, increasing workflow efficiency and improved data accuracy by **50%**.
 - Conducted **50+** user interviews to develop **automation** scripts with **Shell**, **Python**, and **SQL**, improving overall user satisfaction and reducing manual workloads.
 - Authored comprehensive technical **documentation**, which reduced customer-related queries by **90%** and facilitated better understanding and usage of the software systems.
- PJM Interconnection**
Software Engineer

Jan 2018 - Aug 2018
Pennsylvania, United States

 - Led **testing** initiatives for management software, enhancing **user experience** and **software performance**.
 - Developed **50+ unit** and **integration tests** in **Python** to identify critical bugs, thus improving the reliability of the software.
 - Authored technical documentation and proposed project improvement plans, leading to enhanced project efficiency and clarity.

PROJECTS

- Money Flow**
Project Leader

Mar 2024 - Present
Toronto, Ontario, Canada

 - Utilized **Swift** and **Core Data** to persistently store and retrieve transaction data, ensuring data integrity and efficient querying. Implemented complex data relationships to model financial transactions accurately.
 - Designed a **user-friendly interface** prioritizing intuitive navigation and clear data visualization, featuring category selection, transaction search, and insightful reports.
 - Ensured **data security** and implemented **data migration** techniques to handle future app updates, maintaining data integrity across different versions of the app.
- Kuang's Place**
Personal Project

Mar 2020 - Present
Toronto, Ontario, Canada

 - Applied design best practices to **website development**, resulting in a **50%** increase in user engagement.
 - Utilized **Python APIs** and **JSON** for dynamic content retrieval, streamlining workflows and improving efficiency by **90%**.
 - Developed a **CMS** in **Python**, implementing user-centric interface designs that enhanced user experience and facilitated easier content updates.

EDUCATION

- University of Waterloo**
Electrical Engineering I Master I Focusing Field: Machine Learning and AI & Software
GPA: 3.8/4.0
Related Coruses: AI, Algorithm Design, Optimization, Data Analysis, Data Structure, Software Testing/Quality Assurance

May 2021 - Dec 2022
Waterloo, Ontario, Canada
- Temple University**
Electrical Engineering I Bachelor I Minor: Physics
GPA: 3.8/4.0
Awards: Dean's List for all semesters, Honor Student

Aug 2015 - Dec 2019
Philadelphia, Pennsylvania, United States

SKILLS & LANGUAGES

- Software:** JavaScript, Node.js, React, HTML, CSS, SQL, Swift, C/C++, Python, Java, MATLAB, Docker, Git, Shell
- Tools:** Core Data, Jenkins, GitHub Actions, Amazon Web Services, Microsoft Azure, Google Cloud Platform
- Languages:** Chinese Mandarin (Native), English (Proficient)