

Kellan Jiang

SUMMARY

Master's in Electrical Engineering with extensive experience in software engineering, specializing in web development, API integration, and database management. Proficient in Python, C/C++, HTML, CSS, JavaScript, Git, and Jira. Skilled in designing user-friendly interfaces and implementing automated testing and CI/CD pipelines.

EXPERIENCE

DingSheng Garment Company

Mar 2023 - Aug 2024

Remote

Software Engineer

- Utilized Java for ETL processes with PostgreSQL, improving data quality by 50%. Designed and maintained complex
- data workflows to enhance operational efficiency.

 Developed unit tests with JUnit to ensure data consistency and reliability, reducing data error occurrences by 60%.
- Implemented and managed CI/CD pipelines using Jenkins, reducing manual testing efforts through automation and improving deployment speed by 40%.
- Integrated AI models to analyze security camera footage, enabling real-time object detection and improving overall security measures.

Bell's Welding and Mechanical Repair

Dec 2019 - May 2021

Software Engineer

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

Jan 2018 - Aug 2018

Software Engineer

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 Mar 2024 - Present

Project Leader

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 Mar 2020 - Present

Personal Project

Toronto, Ontario, Canada

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

EDUCATION

University of Waterloo

May 2021 - Dec 2022

Electrical Engineering I Master I Focusing Field: Machine Learning and AI & Software

Waterloo, Ontario, Canada

GPA: 3.8/4.0

Related Coruses: Al, Algorithm Design, Optimization, Data Analysis, Data Structure, Software Testing/Quality Assurance

Temple University

Aug 2015 - Dec 2019

Electrical Engineering | Bachelor | Minor: Physics

Philadelphia, Pennsylvania, United States

GPA: 3.8/4.0

Awards: Dean's List for all semesters, Honor Student

SKILLS & LANGUAGES

- Software: C/C++, Python, Java, JavaScript/TypeScript, HTML, CSS, SQL, Swift, MATLAB, Docker, Git, Shell
- Tools: AutoCAD, SolidWorks, OpenCV, Jenkins, Amazon Web Services, Microsoft Azure, Google Cloud Platform
- Languages: Chinese Mandarin (Native), English (Proficient)