

Kellan Jiang

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SUMMARY

Master's in Electrical Engineering with a focus on ML and AI. Experienced in data processing, statistical analysis, and developing data-driven solutions. Proficient in Python, Pandas, TensorFlow, SQL, and Tableau.

EXPERIENCE

DingSheng Garment Company

Mar 2023 - Aug 2024

Remote

Software Engineer

- Utilized Java for ETL processes with PostgreSQL, improving data quality and consistency by 50%.
- Developed unit tests with JUnit to ensure data reliability, reducing data error occurrences by 60%.
- Integrated AI models for enhanced data analysis and reporting, improving decision-making accuracy by 35%.
- Implemented CI/CD pipelines using Jenkins, automating deployment and reducing manual testing efforts.

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 **Python**, and **SQL**, improving overall user satisfaction.
- Authored comprehensive technical documentation, which reduced customer-related queries by 90% and facilitated better understanding and usage of the software systems.

PROJECTS

Mar 2024 - Present Money Flow

Project Leader

Toronto, Ontario, Canada

- Utilized Swift and Core Data to persistently store and retrieve transaction data, ensuring data integrity and efficient querying.
- Ensured data security and implemented data migration techniques to handle future app updates, maintaining data integrity across different versions of the app.

Mar 2020 - Present **Kuang's Place**

Personal Project

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.

Dinno Runner Mar 2023 - Nov 2023

Personal Project

Waterloo, Ontario, Canada

- Developed and trained CNNs with TensorFlow and Python to achieve a 70% success rate in agent's action prediction.
- Implemented deep reinforcement learning with TensorFlow, parallelization, sampling to train the game-playing agent.
- Scaled training process from local machines to AWS to handle large datasets, demonstrating expertise in cloud computing for machine learning tasks.

Automatic Harvest Robot - ShroomBot

Sep 2018 - Dec 2019

Project Leader

Philadelphia, Pennsylvania, United States

- Developed and trained ML algorithms using TensorFlow and Python, resulting in a 40% improvement in harvesting accuracy.
- Optimized data workflows ensuring efficient data transfer and processing, reducing latency by 30%.
- Conducted functional tests for **ROS**-based arm operations, enhancing operational efficiency and precision.

EDUCATION

University of Waterloo

May 2021 - Dec 2022

Electrical Engineering | Master | Focusing Field: Machine Learning and Al & Software

Waterloo, Ontario, Canada

GPA: 3.8/4.0

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

Temple University Electrical Engineering | Bachelor | Minor: Physics Aug 2015 - Dec 2019

Philadelphia, Pennsylvania, United States

GPA: 3 8/4 0

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

SKILLS & LANGUAGES

- Data Analysis: Python, SQL, Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch
- Software: C/C++, Java, MATLAB, Docker, Git, Shell
- Tools: Jenkins, GitHub Actions, Amazon Web Services, Microsoft Azure, Google Cloud Platform.
- Languages: Chinese Mandarin (Native), English (Proficient)