Ricky Wang

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Education

Rochester Institute of Technology, Rochester, NY Expected Graduation: May 2027
Bachelor of Science, Computer Science | Dean's List (2x)
Relevant Coursework: Mechanics of Programming, Discrete Math, Intro to Computer Science Theory, Intro to Software Engineering, Intro to AI, Concepts of Computer Systems, Concepts of Parallel & Distributed Systems

Work Experience

Consolidated Edison Company of New York, Inc. Manhattan, NY
Computer Aide *February 2025 – Present*

- Analyzed and processed datasets from **1,000+ transformer failure records** using **Python and SQL**, identifying patterns in termination issues, internal faults, and mechanical/electrical defects to support predictive maintenance efforts.
- Built **Python-based automation pipelines** for outage and fault detection, reducing manual reporting time by **50%** and enabling real-time processing of **200+** outage events per week.
- Designed and validated **SQL queries** across large, company-wide databases, improving data integrity and reporting accuracy by **30%** for engineering and operational teams.
- Collaborated cross-functionally with engineering and operations teams to translate raw infrastructure data into actionable insights, directly influencing repair prioritization and system reliability decisions.

Projects

Fundraising Platform | *Angular, Java, Spring Boot, REST APIs, Docker*

- Built a full-stack web application using Angular and Spring Boot with RESTful APIs in a team of four, following Agile/Scrum practices.
- Designed backend services using **object-oriented principles** with **90%+** unit test coverage to ensure reliability and maintainability.
- Implemented **role-based access control**, **notifications**, and **search/filter functionality** to support secure and flexible user interactions.

Rapid Automation | *Python (Pandas, scikit-learn), SQL*

- Built an **end-to-end Python pipeline** to ingest, clean, and process outage data using Pandas.
- Trained and tuned an **SVC classification model** with **90%+** accuracy to distinguish engineering vs. non-engineering outage events.
- Automated processing of **5,000+** outage records, improving operational efficiency.

Transformer Failure Classifier | *Python (Pandas, scikit-learn, LightGBM), SQL*

- Built a **Python-based pipeline** to automatically parse **1,000+** PDF reports and convert unstructured transformer data into structured tabular datasets.
- Extracted data from **SQL** databases and parsed PDF reports with Python (Pandas), aggregating and cleaning the combined dataset for reliable model training.
- Developed a stacked ensemble classification model using **scikit-learn** and **LightGBM** to classify transformer failures using features derived from gas and oil sample data.

Technical Skills

Languages: Python, Java, C, C++, SQL, JavaScript, TypeScript, Assembly, Racket
Frameworks & Libraries: Angular, Next.js, Pandas, scikit-learn, Node.js
Developer Tools: Git, Docker, Terminal, VS Code, IntelliJ IDEA