Jerry Luo

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EDUCATION

University of Wisconsin - Madison — Madison, WI
Bachelor of Science in Computer Sciences — *Expected December 2025*
Bachelor of Science in Data Science — *GPA: 3.94*
Coursework *Data Structures, Algorithms, Operating Systems, Networks, Software Engineering, Databases*
Activities *President - Data Science for Sustainable Development*

WORK EXPERIENCE

Capital One — June 2024 – August 2024
Software Engineer Intern — *Philadelphia, PA*
- Created new Golang REST API application for triggering concurrent automated testing to ensure the robustness of around 50 micro-services supporting the creation of new retail bank financial products
- Pioneered new testing method to trigger other applications' tests with real-time data injection, a novel approach within the entire organization, to save an expected 6,000 hours of QA testing per each new financial product
- Dockerized and deployed through Jenkins CI/CD onto AWS Fargate and API Gateway with full test coverage

CoBank — May 2023 – August 2023
Software Engineer Intern — *Denver, CO*
- Created backend Java Spring Boot micro-service for automated data integration and consolidation of over 1000 HR records to increase company wide utilization of new SaaS vendor from less than 1% to 100%
- Developed internal Node.js tool for automated API testing to increase testing coverage to 100% of 88 deployed APIs/applications supported by the team and eliminated slow manual monthly post-patch testing by 5+ hours
- Deployed both applications through Azure DevOps CI/CD and onto RedHat OpenShift Kubernetes

University of Wisconsin - Madison Department of Computer Sciences — September 2024 – Present
Undergraduate Teaching Assistant (CS 620) — *Madison, WI*
- Assisting 100+ students in CS capstone course in collaboration with companies to create real software projects

University of Wisconsin - Madison Division of Information Technology — October 2022 – May 2024
Help Desk Analyst — *Madison, WI*
- Worked on 1000+ cases by assisting customers in troubleshooting hardware, software, and network
- Investigated university wide outages to quickly reduce service interruptions impacting 50,000+ people

PROJECTS

RetroSpecs | *Python, Raspberry Pi, ChromaDB, OpenCV*
- Raspberry Pi smart glasses system that captures your day and allows you to query through your memories
- Placed 1st place overall out of 42 submitted projects and 361 registered attendees at CheeseHacks 2024
- Duplicate images detection, vector database for querying, and LLM integration for natural language analysis

DSIRE | DSSD Renewable Energy Incentives API | *TypeScript, GraphQL, AWS, MySQL*
- Worked with DSIRE, an organization providing comprehensive information on renewable energy policy and incentives, in a team of 6 to develop REST and GraphQL API for renewable energy policies
- Enabled users access to 5,000+ policies and financial incentives for renewable energy in 2,500 cities nationwide
- Deployed through AWS Lambda, AWS API Gateway, AWS RDS, AWS S3 and AWS CloudFormation

Epic Systems | MyChart AI Plugin | *Javascript, Express, Google Gemini, Chrome Extension API*
- Worked with Epic in a team of 5 students to develop AI driven MyChart view to simplify patient health data
- Leveraged Chrome Extension API and Google Gemini to improve user experience and augment customer friendly view with LLM driven chatbot within the MyChart patient portal

Discord Bot | *Python, Heroku, PostgreSQL*
- Developed verified Python Discord bot for audio and gameplay integration with Among Us within Discord
- Used in over 3,500 Discord servers with a combined 200,000+ user reach at its peak

TECHNICAL SKILLS

Languages: Java, Golang, Python, JavaScript, TypeScript, C, R
Technologies: Git, Bash, AWS, Jenkins, Docker, OpenShift, Postman, GraphQL, React, Spring Boot, Apache Camel