Kenji Her

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Education

University of Minnesota — Minneapolis, MN
Master of Science in Computer Science, GPA 3.68 / 4.00 — *May 2024*

University of Minnesota — Minneapolis, MN
Bachelor of Science in Mathematics, GPA 3.69 / 4.00 — *May 2022*

Experience

Data Engineer EDP — Jun. 2024 – Present
Travelers Insurance — *Saint Paul, MN*

- Spearheaded the UI migration of Terrorism Address Analysis application from ExtJS to React, increasing the efficiency of 20+ end-users
- Documented and created 200+ unit tests for various business model services and local intelligence applications, garnering an average code coverage of 86%
- Minimized third party API endpoint calling costs by utilizing MongoDB for local storage of cached data

Research Programmer — Oct. 2022 – Jun. 2023
University of Minnesota — *Minneapolis, MN*

- Optimized function parameters to increase the accuracy and correlation of experiment regression models by 10 percent
- Produced Python scripts to manage and parse through 120+ CSV files for relevant data and analysis
- Utilized the Heroku API as a PaaS to deliver 100+ surveys and monitor patient inputs
- Converted 3 retired Matlab scripts into Inquisit code for ease of project scalability
- Organized experiment data and codebase and implemented CI/CD techniques through Git and Github as VCS

Information Technology Support Specialist — Jan. 2022 – May 2022
University of Minnesota — *Minneapolis, MN*

- Opened, managed, and closed 2 to 6 support tickets daily using TDX software with an average response time of 1 ticket per 15 minutes
- Maintained and set up active learning environments, equipped with Zoom Owls, AMX panels, and Monitors across campus
- Assessed and troubleshot computer issues brought by students, staff, and faculty

Student Laboratory Technical Aide — Oct. 2020 – Jan. 2022
University of Minnesota — *Minneapolis, MN*

- Created 80+ panels of muon-detecting straws with anchors, epoxy, specialized aluminum, and solder techniques
- Collected and performed leak, methane, resistance, tension, and voltage tests using lab equipment and software to ensure panel standards are met
- Accomplished a 200 percent panel creation rate for the duration of work relative to previous years of development by contributing to the lab's Python scripts for the automation of data collection

Projects

The Sock Exchange | *MongoDB, Express.js, React, Node.js, Python, Flask, Git*

- Developed a sock exchanging application that emulates the stock market using the MERN stack
- Implemented and trained a classification model on 1000+ socks to determine sock cleanliness based off various attributes
- Utilized Flask for endpoint connection between the MERN application and a server hosting of model results
- Automated the setup, installation of dependencies, configuration, and build with Git Actions

Technical Skills

Programming Languages: Python, Java, C, Matlab, SQL, JavaScript, HTML/CSS, R
Frameworks & Tools: Git, VS Code, Gradle, Maven, Express.js, Node.js, MongoDB, React, AWS (S3, Athena, Lambda), Flask
Libraries: NumPy, Matplotlib, Pandas