Taenam Kim

Madison, Wisconsin

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Education

University of Wisconsin, Madison

Bachelor of Science in Computer Science *Madison, WI*

Experience

Forbes **June 2024 – present**

Full-Stack Software Engineer intern (Forbes Lists team) *New York, NY*

- Rebuilding **Forbes.com/quotes** with **Next.js** and **MongoDB** for API data management, enhancing scalability and user experience for **1.8M+ monthly users** through **component architecture** and **state management.**
- Developed and optimized over **20 TypeScript** components and refined **GraphQL queries** across **15 endpoints**, reducing redundant code and improving maintainability, which was tracked through a **18% decrease in file size** and **22% faster data retrieval** for the Forbes Lists team.

People and Robotics Laboratory **May 2024 – Present**

Research Intern *Madison, WI*

- Developing a **Visual Learning Model** with deep learning techniques, **CNNs and RNNs**, to analyze videos, generate concise summaries and scripts, and perform real-time object detection, enhancing automated video content processing.
- Engineered a **React Frontend** for video analysis display and a **Flask Backend for VLM processing**, utilizing **RESTful APIs** for data exchange and optimizing performance with caching mechanisms.

Social-To-Do **September 2023 – Present**

Founder *Madison, WI*

- Led the development of a **React Native** productivity app, integrating **MySQL and Firebase** for database management, and implemented **OAuth 2.0** for secure authentication; utilized **Asana** for efficient task tracking and collaboration.
- Conducted **UX research** and optimized **user experience** navigation and database integration in a cross-platform app, leading to smoother performance and improved functionality.

Societe Generale Corporate and Investment Banking **June 2023 – August 2023**

Data Analyst Intern (Global Technology Services) *New York, NY*

- Automated **data aggregation and visualization** using **Pandas and Matplotlib** to optimize project budget analysis, resulting in an **18% reduction in allocation time.**
- Developed and deployed automated analytics solutions using **SQL and MongoDB** for data management, integrating **Linear Regression and Pandas** to enhance efficiency and precision in fiscal allocations.

University of Wisconsin, Madison **September 2022 – Present**

IT Management Assistant *Madison, WI*

- Implementing and optimizing a **library management system** using **Atlassian Confluence** and provided **IT support**

Projects

Beyond The Book: University Financial Insights Application | *Python & Gradio, git* **Demo & GitHub**

- Led a team of 4 at **HackIOWA** and developed a **Python Gradio** application leveraging **OpenAI API and CSV data** to highlight overlooked university expenses, providing students with comprehensive financial insights for college choices.
- Conducted **user research** to identify key pain points in university financial planning and integrated these insights into the app's features to improve **user experience** and value.

Crypto Wallet Adoption | *Python, CSV* **Github**

- Designed and executed a project aimed at increasing **crypto wallet adoption** in developing markets.
- implemented features such as the **Tech-Economic Index** and **Education-Urban Index**, developed predictive models using **Linear Regression and Random Forest**, and performed **cross-validation**

TaskMaster Go | *Go* **Github**

- Developed a secure **RESTful API** using **Go** with **JWT authentication** and **PostgreSQL** for task management, enabling users to efficiently manage tasks with full **CRUD functionality.**
- Implemented **user authentication** and **authorization mechanisms**, ensuring secure access to API endpoints

Technical Skills

Technical Skills: Python, Java, R, CSS, JavaScript, TypeScript, SQL, Apollo GraphQL, Go
Frameworks: Next.js, React/React Native, Flask, MongoDB, OAuth 2.0, Gradio
Tools: Tableau, GitHub, Confluence, Asana, Jira, Kanban, Microsoft Excel, Microsoft PowerPoint, Microsoft Visio, Figma
Methodologies: Agile, Scrum, Sprint, Waterfall, ADDIE