

TAENAM KIM

Madison, Wisconsin

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Education

University of Wisconsin - Madison

Bachelor of Science in Computer Science

Graduating in December 2024

Madison, WI

Experience

Forbes

June 2024 – August 2024

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.

Societe Generale Corporate and Investment Banking

June 2023 – August 2023

Data Analyst Intern (Global Banking Service Unit)

New York, NY

- Collaborated with cross-functional teams to automate data aggregation and visualization using **Pandas** and **Matplotlib**, enhancing **project budget analysis** and reducing allocation time by **18%**, which contributed to improved **financial modeling and decision-making**.
- Developed automated analytics solutions leveraging **SQL** and **MongoDB**, integrating **Linear Regression** and **Pandas** to optimize allocation precision, supporting **Business evaluation** and **Strategic assessments** for corporate clients.

People and Robots 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.

University of Wisconsin - Madison

September 2022 – Present

IT Management Assistant: End User Computing (EUC)

Madison, WI

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

Republic of Korea Army

January 2021 – July 2022

CyberSecurity Clerk (Sergeant)

Gyeonggi-do, South Korea

- Analyzed and responded to over 5,000 security incidents across 18 months using **ArcSight**, **Wireshark**, and protocols such as **TCP/IP** and **SSH**, improving threat detection accuracy and reducing false positives by 17%.
- Developed and enforced **SSL/TLS** for encrypted communication and **IPSec** for secure IP transmission, resulting in a **38% reduction in unauthorized access attempts** and strengthening network integrity over 18 months.

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**

Social To Do | React Native, Flask, mySQL

GitHub

- 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.
- Conducted **UX research** and optimized **user experience** navigation and database integration in a cross-platform app

Technical Skills

Technical Skills: Python, Java, R, CSS, JavaScript, TypeScript, SQL, Apollo GraphQL, Go

Frameworks: Next.js, React/React Native, Flask, MongoDB, Postgres, OAuth 2.0, Gradio, Node.js

Tools: Tableau, GitHub, Confluence, Asana, Jira, Kanban, Microsoft Excel, Microsoft PowerPoint, Slab, Figma, Notion

Methodologies: Agile, Scrum, Sprint, Waterfall, ADDIE