JIHUN KIM

C++, Python | C, C#, JavaScript, TypeScript | TensorFlow, Pandas, Git, Excel

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PORTFOLIO

EDUCATION

The University of Tennessee, Knoxville	Knoxville, TN
Candidate for Master of Science in Computer Science	Aug 2024 - May 2025
Bachelor of Science in Computer Science	Aug 2020 - May 2024
Minor in Cybersecurity & Machine Learning	

- Cumulative GPA: 3.98/4.0 | Dean's List: Fall 2020 - Fall 2023
- Courses: Data Structures & Algorithms, Systems Programming, Software Engineering, Biologically Inspired Computation, Deep Learning, Applied Cryptography, Network Security

EXPERIENCES

Science Undergraduate Laboratory Internships	Knoxville, TN
Oak Ridge National Laboratory	May 2023 - July 2023

- Focused on improving interoperability between different geographical categorization schemes using a *Large Language Model*.
- Information retrieval and semantic search using natural language processing tools.
- Analyzed the collected data by visualizing it in clustered bar graphs or boxplots.

Engineering Physics Teaching Assistant	Knoxville, TN
University of Tennessee, Knoxville	Aug 2022 - May 2023

- Helped improve students' understanding of programs such as Excel and MATLAB.
- Contributed to increasing students' understanding of physical concepts.

PROJECTS

Spiking Neural Network Drone, *Team Project*	Oct 2023 - May 2024

- Implement *Spiking Neural Network* to autonomously control Crazyflie drone.
- Test the drone's performance, stability, and flight skills for stable autonomous flight.

Wordle Solver using Bayesian Model, *Team Project*	Nov 2023 - Dec 2023

- Achieving 3.87 average attempts to guess Wordle words using the Bayesian Model.
- As a group leader, I set the direction and adapted goals based on our progress.

Creating a New Classical Song, *Team Project*	Apr 2023 - May 2023

- Trained a model using *Recurrent Neural Network* by inputting lots of classical music.
- Created a new classical song using a trained model using *TensorFlow* in *Python*.

ORGANIZATION

Hack4Impact	Sep 2023 - May 2024

- Developed a website helping capture volunteer information and event management.
- Create API routes to update or get information in the database using *TypeScript* and *MongoDB*.
- Create webpages to verify volunteer roles and update organization information.

AWARDS

Microsoft Excel Collegiate Challenge 2023 Certificate	Sep 2023 - Nov 2023

- Demonstrates a blend of theoretical knowledge and practical skills in Excel.

OLCF Hands-On HPC Certificate, *Oak Ridge National Laboratory*	Jun 2023 - Aug 2023

- High Performance Computing including Machine Learning, GPU Programming, etc.

Engineering Scholarship, *University of Tennessee, Knoxville*	Aug 2021 - May 2024

- Awarded based on academic qualifications, extracurricular activities, leadership roles, and awards received in high school.