

JIHUN KIM

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

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EDUCATION

The University of Tennessee, Knoxville

Knoxville, TN

Master of Science in Computer Science

Aug 2024 - May 2025

- GPA: 4.00/4.00

- Courses: Network Security, Computer Systems Organization, Natural Language Processing

Bachelor of Science in Computer Science

Aug 2020 - May 2024

Minor in Cybersecurity & Machine Learning

- GPA: 3.98/4.00 | Dean's List: Fall 2020 – Spring 2023, Spring 2024 (Summa Cum Laude)

- Courses: Data Structures & Algorithms, Systems Programming, Software Engineering, Biologically Inspired Computation, Deep Learning, Applied Cryptography

EXPERIENCES

Machine Learning Graduate Teaching Assistant

Knoxville, TN

University of Tennessee, Knoxville

Aug 2024 - Dec 2024

- Providing personalized assistance to students struggling with assignments and concepts.
- Deepening students' understanding of fundamental machine-learning topics.

Science Undergraduate Laboratory Internships

Knoxville, TN

Oak Ridge National Laboratory

May 2023 - July 2023

- Improving interoperability between 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 Undergraduate 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

- Implemented *Spiking Neural Network* to autonomously control Crazyflie drone.
- Tested 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.
- Created API routes to update or get information in the database using *TypeScript* and *MongoDB*.
- Created 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, and leadership roles.