Seoyoung (Amy) An

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www.linkedin.com/in/seoyoungan/ | github.com/seoyoung16 | orcid.org/0009-0002-8256-6376

Python, C++, C, Java, C# | Pandas, Dash, Pytorch, TensorFlow | Jupyter Notebook, VS Code, Git, Docker

EDUCATION

Ph.D. in Computer Science — University of Tennessee, Knoxville
Advisor: Catherine D. Schuman — *August 2024 – TBD*

Bachelor of Computer Science — University of Tennessee, Knoxville
Minor in Machine Learning and Cybersecurity — *August 2020 – May 2024*
Chancellor's Honors Program — *GPA: 3.98/4.0*

AFFILIATIONS

Systers: Women in EECS — August 2021 – Present
Vice President (May 2023-Present), Treasurer (August 2022- May 2023) *https://www.systers.eecs.utk.edu/*

- Serve a volunteer organization dedicated to women in EECS at the University of Tennessee, Knoxville by organizing events as an officer.
- Recruit, retain, and mentor female EECS students through hosting EECS Welcome Event, AI Panel, and Mini Internship and Research Fair and managing finance and organization website.

RESEARCH PROJECTS

Analytics for Neural Networks (A4NN) Research in GCLab — August 2022 – Present

- Create a visual interactive analytics dashboard tool in Python that visualizes the network structures, identifies the common subsequences, and calculates the distance between networks for analysis as an undergraduate research assistant.
- Analyze neural network structures and validation accuracy generated by the Neural Architecture Search prediction engine using protein diffraction dataset.

PUBLICATIONS

S. An, G. Channing, C. Schuman, and M. Taufer, "VINARCH: A Visual Analytics Interactive Tool for Neural Network Archaeology," *2023 IEEE International Conference on Cluster Computing Workshops (CLUSTER Workshops)*, Santa Fe, NM, USA, 2023, pp. 50-51.

PROJECTS

Spiking Neural Network Drone — October 2023 – Current

- Train, simulate, and test Crazyflie drone for autonomous flight using Spiking Neural Networks.

Wordle Solver — November 2023 – December 2023

- Create an interactive Wordle Solver with an average attempt of 3.87 using the Bayesian model.

RECOGNITIONS

IEEE CLUSTER Student Travel Awards — October 2023

- Award for students for travel assistance for the IEEE CLUSTER conference.

Jamie & Richard Thomas Endowment — August 2023 – May 2024

- Award by the Department of Electrical Engineering and Computer Science.

Thomas D. Dunlap Scholarship — August 2020 – Present

- Four-year award academic merit-based competitive scholarships.