

Cleah Winston

Education

University of Washington, Seattle

B.S./M.S. in Computer Science (Direct Admit) // UW Dean's List (AU22, WI24, WI25)

- **Related Coursework:** Machine Learning, Deep Learning, Computer Vision, Algorithms, Robotics, Data Structures

September 2022 – June 2026 (B.S.)

September 2026 – June 2027 (M.S.)

GPA: 3.80

Work Experience

Supio [Software Engineering Intern]

- Designed and built end-to-end platform with AWS orchestration layer for large-scale training of intent classifiers with LLM-based data generation methods.

June 2025 – September 2025

Neurophys [Software Developer]

- Designing AI-based technology for smart at-home rehabilitation plans.

Aug. 2024 – Present

Best Idea Prize in Digital Health @ Holloman Health Innovation Challenge 2025

Paul Allen School of Computer Science, UW [Teaching Assistant]

- Lead class groups (~30 students), office hours, and review sessions.

Aug. 2023 – Present

Discrete Math (CSE 311), Probability & Statistics (CSE 312), Machine Learning (CSE 446)

Banyan Computing [Backend Software Developer Intern]

- Built Julia script-saving system and software for managing AWS cloud spending.

June 2022 – Sept. 2022

Sept. 2021 – April 2022

Research Projects

Off-Policy Generative Policy Optimization [UW CSE]

- Evaluated method for improving sample efficiency of online RL by increasing data utilization and allowing for greater policy expressivity.

September 2025 – Present

Abhishek Gupta (PhD, UW CSE); WEIRD Lab, UW

Improving Robustness of Imitation Learning on OOD Data using Offline RL [UW CSE]

- Leveraged methods to broaden the support offline reinforcement learning policy distribution to improve success with low-quality/quantity data coverage.
- Improved task completion across Franka tasks and simulation by ~30%.

June 2024 – Present

Abhishek Gupta (PhD, UW CSE); WEIRD Lab, UW

In review @ ICRA 2026

Large Language Models for Medical History Generation [UW CSE, Stanford, UPenn]

- Improved chief complaint embedding methods for clinical prediction tasks.
- Tested novel methods to improve LLM ability to take a relevant patient history.

Oct. 2023 – Sept. 2024

2024 International Conference of Health Informatics

Poster @ 2024 GenAI4Health Workshop, NeurIPS

2nd @ MD Plus Datathon on value-based care

Improving Robotic Car Navigation Algorithms [UW CSE]

- Designed and built PyTorch-based road-following models using simulated data (70% of data used) and limited real-world data (30%) to improve robustness.

Sept. 2022 – May 2024

Alex Spitzer & Dr. Byron Boots (Overland AI, UW CSE); UW

Robot Learning Lab

Presented @ Undergraduate Research Symposium

Augmented Reality for Physical Therapy [UW CSE, Foster, Medicine, BioEngr.]

- Built prototype, designed business plan of immersive AR at-home PT technology.

Sept. 2023 – Feb. 2024

Presented @ Final Round of Holloman Health

Innovation Challenge 2024

Repairing Brain-Computer Interfaces (BCI) with Fault-Based Data Acquisition [UW CSE]

- Evaluated novel BCI debugger that relied on focused data acquisition and data labeling using a cursor manipulation neural decoder application.

April 2021 – May 2022

Dr. Rajesh Rao & Dr. Rene Just (PhD, UW CSE)

2021 Engineering in Medicine and Biology & 2022 International Conference on Software Engineering

ML-Based Neural Decoding

- Developed ML-based haptic neural decoders, for object-handling prosthetics.
- Built ML-based system to predict distracted driving from EEG data.

Dec. 2019 – March 2021

Courtnei Paschall (UW MD/PhD student)

1st @ WSSEF 2020, 2021; 2nd in Software Systems @ 2021 CRSEF, US Air

Force Award, 2020 Student Scholar Symposium (Sigma Xi)

MyScoliCare (Android/iOS app)

- Developed app with a voice assistant for scoliosis patients; has 100+ users.

Nov. 2018 – May 2019

Endorsed by Dr. Manuel Rigo (MD/PhD, Barcelona Scoliosis PT School)

Non-Operative Treatment of Childhood Scoliosis, Columbia University

Publications/Conferences

Medical question-generation for pre-consultation with LLM in-context learning. *2024 GenAI4Health Workshop (NeurIPS)*.

Multimodal Clinical Prediction with Unified Prompts and Pretrained LLMs. *2024 International Conference on Health Informatics*.

Repairing Brain-Computer Interfaces with Fault-based Data Acquisition. *2022 IEEE/ACM 44th International Conference on Software Engineering*

Outreach/Volunteer

CS Education Week, UW [Speaker] – Presented my research to high school students.

Dec. 2023

NeuroTEC, UW [Digital Media Leader] – Managed digital media on neurotech topics.

Oct. 2021 – June 2023

CobraCoders.org [Co-founder] – Ran outreach platform to inspire students in tech.

July 2019 – September 2023

Amazon Women in Engineering [Speaker] – Presented 3 tech talks to high-school students.

July 2019, Aug. 2020, Aug. 2021

Skills

Programming Languages: Python, Java, HTML/CSS, Julia, System Verilog, JavaScript, TypeScript, React

Software Libraries/Tools: AWS (S3, EC2, DynamoDB, Scikit-Learn, NumPy, Pandas, PyTorch, Intel Quartus Prime