

Eric Yen

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EDUCATION

Cornell University

Ithaca, NY

College of Engineering

Aug 2024 – May 2028

- *Relevant Coursework:* Multivariable Calculus, Object Oriented Programming and Data Structures

WORK EXPERIENCE

NorthWest Research Associates

Bellevue, WA

Research Intern

Aug 2023 – Feb 2024

- Coprocessed and analyzed real-time lightning data to reduce noise received by OTH (over-the-horizon) Radar. Created data visualizations to quantify noise and track how thunderstorms affect communication networks
- Presented work alongside 100 other highschoolers at American Geophysical Union Conference in December of 2023

Research Assistant @ University of Washington

Seattle, WA

Undergraduate Research Assistant under Professor Jeremy Thomas

Jan 2021 – Aug 2023

- Developed programs in Python to download, graph, and analyze live data gathered from hurricanes across the US
- Combined GLM (Geostationary Lightning Mapper) and WWLLN (World Wide Lightning Location Network) cloud data to track live hurricanes. Analyzed images to understand atmospheric changes primarily across the U.S

Machine Learning @ Seattle Pacific University

Seattle, WA

Undergraduate Research Assistant under Professor Carlos Arias

Aug 2022 – May 2023

- Compiled and analyzed agronomy and epilepsy data to teach introductory machine learning to undergraduate agriculture and pre-med students, respectively
- Gathered and analyzed data from over thirty colleges and universities across the West Coast to create a balanced yet challenging Computer Science curriculum for underprivileged first year undergraduate students

PROJECTS AND EXTRACURRICULARS

Salmon Surveying Alternative | Lead Developer

Aug 2022 – Feb 2024

- * Developed drone scanner with Arduino Uno. Used Python and OpenCV for follow-me, 200khz 90-deg sonar beam angle to detect fish. Created overall cheaper, more effective alternative for volunteer organization
- * Developed Python program to display trends in maternal Coho Salmon numbers in the stream, including an administrative guardrail that verifies errors with previous data gathered by volunteer organization

Outdoor Buddy Website | Lead Developer

Aug 2021 – Dec 2022

- * Spearheaded the development of an interactive map that allows users to meet up and run, hike, or bike. Implemented many safety measures for current and future users using user data. Written in React

LEADERSHIP AND COMMUNITY INVOLVEMENT

Engineering Club @ Bellevue High School | Founder and President

Sep 2021 – Jun 2024

- * Taught students how to use Arduino to create mini projects on their own, created opportunities for students to explore different fields of engineering through tours/shadowing at laboratories at the University of Washington
- * Organized a STEM fair at a local elementary school to introduce engineering for over 300 young students

TECHNICAL SKILLS AND INTERESTS

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS, MatLab, C++

Frameworks & Libraries: Node.js, React, Express.js, NumPy

Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio