

Julia (Jules) Hunter

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EDUCATION

Bachelor of Science, Computer Science and Mathematics

Sep 2021 – Expected Jun 2025

Seattle University

- Double major, GPA 3.61
- Related coursework: data structures, algorithms, databases, object-oriented programming, computer networks, computer graphics, calculus, linear algebra, differential equations, Fourier analysis, mechanics

Study Abroad

Apr 2023 – Jul 2023

Sophia University, Japan

- Studied intercultural communications, focused on Chinese and Japanese history.

WORK EXPERIENCE & PROJECTS

Seattle University, Research Assistant

Sep 2024 – Present

- Simulating electrical activity in neurons using an Adaptive Exponential Integrate and Fire model for the purposes of using simulation-based inference (SBI) and a neural network to replicate the results of other researchers.
- Serving as an undergraduate researcher under Dr. Brian Fischer, assisting with programming and testing.
- Developed and tested two functions extracting important information about the neuron's firing patterns and integrated them into a single function that can be used to conduct SBI.
- Coding in Python (matplotlib, scikit-learn, numpy, sbi) with Jupyter Notebook, implementing machine learning (clustering algorithms), simulation-based inference, and data visualization.

Kilowatts for Humanity, Seattle University Capstone Project, Software Engineer

Sep 2024 – Present

- Building a web application that models business cases for sustainable off-grid electrical systems in developing countries.
- Developer on a team of 4 working on the backend application net energy calculation scripts, and integrating them with the frontend.
- Implemented the basic application that allows a user to upload a CSV file containing irradiance, temperature, and load data, and generates a graph of the energy generated by the solar array.
- Coding in JavaScript using React for the frontend and in Python using a Flask app for the backend, using Visual Studio for development and GitHub for version control.

Seattle University, Math Tutor

Sep 2023 – Present

- Tutoring students in various undergraduate math courses.
- Member of a team of 6-8 people taking shifts throughout the school week to staff the Math Lab.
- Solved problems and explained solutions to around 40 students per month with math, promoting a community space.
- Taught using Mathematica, developing skill in technical communication, leadership, and adaptability.

SKILLS

Programming Languages: Python, C++, JavaScript, HTML, CSS, SQL, F#, OpenGL, GLSL

Tools: GitHub and Git, Microsoft Suite (Word, Teams, Excel), Visual Studio, LaTeX, Mathematica, Figma, MATLAB, Google Docs, ArcGIS Online, ArcGIS Pro

Concepts: Full Stack Development, Agile Development, Databases, Unit Testing, Web Development

Soft Skills: Technical communication, teamwork, professionalism, adaptability, problem-solving, time management, planning, academic writing

Foreign Languages: Mandarin Chinese (HSK 3 Cert Aug 2024, Confucius Institute of the State of Washington)