Julia N. Hunter

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EDUCATION

Bachelor of Science, Computer Science and Mathematics **Sept. 2021 – Expected June 2025**
Seattle University

- Double major, GPA 3.61
- Related coursework: data structures, algorithms, databases, object-oriented programming, computer networks, computer graphics, linear algebra, Fourier analysis, Intro to GIS

Study Abroad **Apr. 2023 – July 2023**
Sophia University, Japan

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

WORK EXPERIENCE & PROJECTS

Kilowatts for Humanity, Seattle University Capstone Project, Software Engineer **Sept. 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, Research Assistant **Sept. 2024 – Present**

- Simulating electrical activity in neurons using an Adaptive Exponential Integrate and Fire neuron model for the purposes of using simulation-based inference (SBI) and a neural network to replicate results.
- 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.
- Built using Python (matplotlib, scikit-learn, numpy, sbi) with Jupyter Notebook, implementing machine learning (clustering algorithms), simulation-based inference, and data visualization.

Seattle University, Math Tutor **Sept. 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++, SQL, F#, HTML, CSS, JavaScript, OpenGL, GLSL
Tools: Figma, LATEX, MATLAB, Mathematica, Microsoft Suite (Word, Teams, Excel), Linux, Visual Studio, Google Docs, ArcGIS Pro, ArcGIS Online, GitHub and Git
Concepts: Full Stack 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)