

# Jules Hunter

## Software Engineer

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## EDUCATION

**Bachelor of Science, Mathematics and Computer Science**  
Seattle University, Double major, GPA 3.6

Sep 2021 – Expected Jun 2025

## RELEVANT COURSEWORK

- **Object-oriented Design:** Dependency injection, inheritance, polymorphism, encapsulation, class design, unit testing
- **Databases:** Relational database design, data modeling and schema design, normalization
- **Computer Networking:** Network architecture, internetworking, congestion management, CDN, DNS
- **Data Structures:** Binary search trees, priority queues, hash tables, heaps, big-O, recursion, sorting algorithms

## EMPLOYMENT & VOLUNTEERING

### Software Engineer, KiloWatts for Humanity

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 data storage
- Implemented the basic application that allows a user to upload a CSV file containing irradiance, temperature, wind, diesel, and load data, and generates a graph of the net energy
- 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

### Research Assistant in Computational Neuroscience, Seattle University

Sep 2024 – Present

- Simulating electrical activity in neurons using an Adaptive Exponential Integrate and Fire model and simulation-based inference (SBI) to replicate the bursting frequencies of neurons at select amplitudes of injected current.
- Serving as an undergraduate researcher assisting with developing and testing code for statistical inference.
- Developed and tested two functions to calculate summary statistics, worked collaboratively to write code for a neural posterior estimation using an MLP neural network, and wrote a report and presentation tailored to non-experts on the process we used to achieve results.
- Coding in Python (matplotlib, scikit-learn, numpy, sbi) with Jupyter Notebook, implementing machine learning (clustering algorithms), simulation-based inference, and data visualization.

### Undergraduate Math Tutor, Seattle University

Sep 2023 – Present

- Tutoring students in various undergraduate math courses, including calculus, linear algebra, probability, and differential equations.
- Member of a team of 6-8 people working throughout the school week to staff the Math Lab for drop-in tutoring.
- Solved problems and explained solutions to around 40 students per month and encouraged their academic progress.

### Teaching Aide in Math for K-8 Teachers, Seattle University

Jan 2023 – Apr 2023

### Elementary Math Tutor, SUM Corps at Bailey Gatzert Elementary School

Sep 2022 – Dec 2022

### Barista, Starbucks

Jun 2022 – Sep 2022

### Aerial Acrobatics Instructor, San Diego UNITED Training Center

Jun 2017 – Apr 2020

## SKILLS

**Programming Languages:** Python, MySQL, HTML, JavaScript, CSS, C++, F#

**Tools:** GitHub and Git, Microsoft OS/Microsoft 365 (Word, Excel, PowerPoint, Outlook), React, Flask, Node.js, Visual Studio, LaTeX, Mathematica, MATLAB, ArcGIS Online, Google Firebase (NOSQL database), ChatGPT

**Concepts:** Full Stack Development, Agile Development, pair programming, code reviews

**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)