Seiji Minowada

(925) 255-6751 | sminowada@ucsd.edu | Linkedin | Github

Education

University of California, San Diego — La Jolla, CA

BS in Computer Science, Minor in Business Economics — *Sep. 2020 – June 2025*

- **Relevant Coursework:** Advanced Data Structures, Data Science in Practice, Recommender Systems and Web Mining, Principles of Computer Operating Systems, Components and Design Techniques for Digital Systems
- **Awards:** Provost Honors

Semester At Sea

Sep 2024 – Dec 2024

- Traveled and studied in 10 countries over 4 months starting in the Netherlands and ending in Thailand
- **Awards:** Dean's List

Experience

Undergraduate Research Assistant — March 2024 – Present

System Energy Efficiency Lab — *UC San Diego*

- Assisted with research on hyper-dimensional computer algorithms and its use for energy-efficient and accurate real-time ensemble learning models for use on edge devices
- Coauthored and submitted a research paper to ICCD 2024 on Hyperdimensional Computing Ensembles
- F. Ponzina, R. Chandrasekaran, A. Wang, **S. Minowada**, S. Sharma and T. Rosing, "Multi-Model Inference Composition of Hyperdimensional Computing Ensembles," 2024 IEEE 42nd International Conference on Computer Design (ICCD), Milan, Italy, 2024, pp. 691-698, doi: 10.1109/ICCD63220.2024.00111

Vice President — May 2023 – May 2024

UC San Diego Ski & Snowboard Team — *La Jolla, CA*

- Helped lead a team of 50 skiers and snowboarders to the USCSA Nationals Competition in Lake Placid, NY
- Coordinated logistics and communicated with school admin and the USCSA league regarding races, registration, and eligibility

Intern — May 2022 – July 2022

Curio Digital Therapeutics — *Remote*

- Researched and advised expansion strategies for employer health plans to grow the presence of the company and product
- Identified competitors within the digital health space relating to women's mental and physical health, pregnancy, and digital therapeutics

Projects

Pantry Pal | *Java, MongoDB, Gradle, JavaFX, DallE, Whisper*

- Developed an application for generating recipes with pictures based on user voice input ingredients
- Implemented API calls for recipe creation, image generation, and speech recognition
- Validated logins and stored user profiles with recipes using MongoDB

Housing Price Prediction | *Python, BeautifulSoup, Pandas, scikit-learn*

- Webscraped single family Berkeley CA housing data from Redfin using BeautifulSoup
- Created a price prediction model using SciKit Learn based on past house sales to estimate on-market housing prices for Berkeley California

Technical Skills

Languages: Java, Python, C/C++, JavaScript, HTML/CSS
Frameworks/Packages: PyTorch; NumPy; Pandas; Matplotlib; scikit-learn; Git; Jupyter