Seiji Minowada

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Recent Computer Science graduate from UC San Diego specializing in Machine Learning with experience in Predictive Modeling and Python Project Development. Looking to expand my industry experience, excited to solve read world problems

Education

University of California, San Diego Sep. 2020 – June 2025

BS in Computer Science, Minor in Business Economics

- **Relevant Coursework:** Advanced Data Structures, Data Science in Practice, Recommender Systems and Web Mining, AI Algorithms, AI: Search and Reasoning, Design and Analysis of Algorithms, Database System Principles
- **Awards:** Provost Honors, Second Team Scholar All-American

Experience

Undergraduate Research Assistant March 2024 – Present

System Energy Efficiency Lab

- 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

Intern June 2022 – September 2022

Curio Digital Therapeutics

- 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

Vice President May 2023 – May 2024

UC San Diego Ski & Snowboard Team

- 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

Technical Skills

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

Projects

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

- Developed an application for generating recipes with images 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 recommender model using SciKit Learn based on past house sales to estimate on-market housing prices for Berkeley California