


Alden Deran

Santa Cruz, CA

 (831) 566-5396

 aldenderan@protonmail.com

Experience

The Home Depot

Lumber Associate

Soquel, CA

November 2023 - Present

- Helping customers find the lumber and building materials they need for their projects
- Using forklifts and reach trucks to re-stock lumber, retrieve pallets, and load customer vehicles
- Cutting lumber to customers' specifications using the panel and radial arm saws
- Keeping the department stocked and products in the right place
- Helping customers load heavy items into their vehicles
- Received four "Homer Awards" for my attention to detail and hard work

Tutor.com

Computer Science Tutor

Remote

January 2020 - March 2024

- Helped students with their Python, C, and C++ programming projects
- Taught students basic computer science topics that weren't often covered in their online classes
- Received great reviews for ability to explain difficult topics, and patience when dealing with struggling students

UC Santa Cruz Genomics Institute

Research Assistant

Santa Cruz, CA

June 2015 - July 2018

- Python and C programming, mainly working on software that compares genomes to find similar genes between humans and other species
- Cloud computing and parallel processing of genomics data

Santa Cruz Institute for Particle Physics

Test Technician

Santa Cruz, CA

September 2011 - June 2012

Testing the response of silicon strip particle detectors to various applied voltages. This was to ensure the detectors could withstand the high-radiation environment of the Large Hadron Collider without leaking current or losing their ability to resolve individual particle hits.

Skills

Programming:

- C, C++, Python, JavaScript, HTML, CSS
- Database systems
- Machine Learning and AI with TensorFlow
- Computational Genomics

Practical:

- MS Excel
 - Forklifts, narrow-aisle reach trucks, electric ladders, saws, warehouse logistics
 - Some general knowledge of types of lumber, concrete, structural connectors, drywall, and other building materials.
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Education

University of California, Santa Cruz

B.S. Physics (GPA: 3.1/4.00)

Santa Cruz, CA

August 2011 - January 2016

Senior Thesis: Effective Operator Contributions to W-boson Scattering at the LHC