Danielle Laganiere

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Education

University of California, Santa Cruz

Bachelor of Science - Robotic Engineering   *Expected June 2022*

- Programming, debugging, and testing code in a variety of languages including C/C++, Python, and Javascript, as well as utilizing microcontrollers and other hardware to bring software development into the physical world.

Work History

Nuleep - Software Engineering Intern   *July 2021 - September 2021*

- Utilized APIs to apply a reinforcement learning model to personalize content and improve data matching to increase user engagement.
- Brainstormed solutions and troubleshooted bugs with lead software developers by pair programming.
- Partnered with CTO to devise a new database structure that adapts to the latest machine learning model.

UCSC Group Tutor - Programming Abstractions: Python   *March 2021 - PRESENT*

- Guided students in brainstorming and writing python scripts to encourage successful completion of increasingly complex programs, as well as debugging to confirm correct results.
- Ensured students completed labs successfully with the knowledge to recreate continued results.

UCSC Group Tutor - Beginning Programming in Python   *January 2021 - March 2021*

- Instructed students in fundamental object-oriented programming concepts, as well as developing and debugging coding projects, to create a strong software development foundation.

UCSC Undergraduate TA - Data Structures and Algorithms   *September 2020 - March 2021*

- Instructed students in course concepts related to data structures and algorithms, and helped brainstorm and develop complex programs in C/C++ to utilize these ideas.
- Provided additional resources and support in topics such as linked lists, stacks, queues, hash tables, trees, heaps, and graphs.

Merrill Potter Cooperative Co-Head Manager   *September 2019 - PRESENT*

- Oversees the on-campus university ceramic studio of 150+ people with administrative duties and record keeping.
- Trains members in safety protocols and hands-on skills.

Skills

Python	C / C++	Javascript	React
Tailwind	HTML / CSS	Data Structures	Algorithms
Logic Design	FPGAs	Embedded Systems	Machine Learning Models

Leadership Positions & Certifications

- Communication Lead of the On Board Computer subteam of UCSC SlugSat team, which has been building a small satellite from the ground up over the course of 4+ years.