CADE A. MILLER

17192 Patina Street
San Diego, CA 92127

cademillersd@gmail.com
www.linkedin.com/in/cade-miller-sd/

UCLA

Data Theory student looking for exposure to industrial applications of data analytics and machine learning

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Experience

Data Scientist Intern – Stanford Linear Accelerator Center (SLAC), Menlo Park, CA   **June 2023 - August 2023**
- Redesigned the Linac Coherent Light Source (LCLS) Input-Output Controller (IOC) database
- Wrote Python scripts that parsed data from the new LCLS IOC database, amended existing Python scripts that relied on the old database
- Wrote Python scripts that optimized the maintenance of the LCLS magnet controls via Oracle databases, authored and published documentation using Sphinx
- Designed and built a GUI using Python Display Manager (PyDM) that displays the Experimental Physics Industrial Control System (EPICS) computers' water-cooling statuses

Soccer Referee: Youth, Collegiate, Semi-Professional – U.S. Soccer Federation   **September 2017 - Present**
- Adult, semi-professional Women's Premier Soccer League (WPSL) and U-20 United Soccer League (USL) games
- Hand-selected for national youth competitions, including MLS Next, Surf Cup, Cal South State Cup, Elite National Premier League national playoffs, and Elite Clubs National League National Championships

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PROJECTS

San Diego Miramar College Textbook Ordering System, C++
- Developed software that processed inputted textbook data and proposed accurate ordering recommendations based on historical data
- Implemented search, edit, print, file read and write, and tabular output capabilities

Water Measurement Instrument, Aduino/C++/HTML
- Engineered a water quality instrument using an ESP32 microcontroller that accurately measured total dissolved solids, temperature, and pH
- Developed software that processed the data and incrementally outputted it to a live website

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EDUCATION

University of California, Los Angeles (UCLA), Los Angeles, CA   **September 2023 - June 2025, expected**
- B.S. Data Theory

San Diego Miramar College, San Diego, CA   **June 2022 - August 2023**
- A.S. Mathematics, GPA: 3.88, Major GPA: 4.0
- Relevant Coursework: Multivariable Calculus, Linear Algebra, Differential Equations, C++ Programming, Principles of Information Systems

Rancho Bernardo High School, San Diego, CA   **August 2018 - June 2022**
- GPA: 4.11, SAT: 1480
- AP Classes: AP Calc AB, AP Calc BC, AP Physics (Mechanics), AP Computer Science Principles, AP Environmental Science, AP United States History, AP United States Government and Politics

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Technical Skills

- Python
- C++
- Sphinx
- Git
- HTML
- Python Display Manager (PyDM)
- Experimental Physics Industrial Control System (EPICS)
- SQL
- PyQt
- Linux/Unix
- Bash Scripting