

ANDREW LENZ

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Berkeley, CA

EDUCATION

University of California, Berkeley | Berkeley, CA

Expected Graduation - May 2022

College of Engineering: Bachelor of Science: EECS; Minor in Data Science

GPA: 3.76

Selected Honors and Awards: Dean's Honor List, Outstanding Academic Intern (2019)

Relevant Coursework: Machine Learning (189), Probability (Data 140), Stochastic Processes (IE 173), Optimization (127), Data Science (Data 100), Algorithms (170), Architecture (61C), Data Structures (61B)

SKILLS

Technical Python (Numpy, Pandas, Scikit-Learn), Java, SQL, Git, C, Google Suite

Non-Technical Collaboration, Communication, Event Planning, Time Management

Interests Gardening, Singing, Reading Science Fiction, Hiking, Cooking, Writing, Piano

EXPERIENCE

Amazon - Physical Stores Tech

Software Development Intern

Jun - Aug 2021

- Implemented a report to provide discrepancy details between live and published states of the physical stores, saving ~40 associate work-hours for a store of 600 racks.
- Utilized tools including Spring Framework for dependency injection and queues for asynchronous publishing.

UC Berkeley Data Science Department

Undergraduate Student Instructor (TA)

Jan 2021 - Present

- Taught 40+ students bi-weekly to discuss new concepts and solve problems together, covering concepts such as SQL, feature engineering, data visualization, linear and logistic regression, and random forests.
- Met with small groups of 4 students for guided discussion of homework problems.

UC Berkeley EECS Department

Tutor

Aug - Dec 2020

- Met with groups of 5 students for 30 minutes each week to work on problem sets to develop and retain understanding of new concepts such as Python, recursion, simple data structures, Scheme, and SQL.
- Facilitated a space where students felt comfortable sharing concerns and struggles with the material.

Undergraduate Student Instructor (TA)

Jun - Aug 2020

- Taught 40+ students for 3 hours each week to discuss new concepts and work on problem sets.
- Supported students by hosting individual office hours and responding to questions on course forum.

Hessian Pharmaceuticals

Research & Development Intern

Feb - Jun 2019

- Determined mechanism of action from research of failed pharmaceutical products by reading scientific articles.
- Created and implemented tools in Jupyter Notebook to obtain patient counts for conditions including sepsis
- Aggregated clinical trial data for use with machine learning algorithms to optimize patient populations.

EXTRACURRICULAR ACTIVITIES

Biomedical Engineering Society

Academic Committee Co-Chair

May 2019 - Apr 2020

- Worked with other incoming officers to host the BMES informational table at Cal Day and produced 100+ zines to introduce incoming students to UC Berkeley Department of Bioengineering.
- Lead a committee of 20+ students to host academic bioengineering events throughout the school year.
- Publicized events through social media and communication channels that reached 100+ people.

For Christ's Sake A Cappella | Vocal Ensemble

Fall 2018 - Summer 2020

- Created and helped teach a cappella arrangements from Spring 2019 to present.
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