

# ANDREW LENZ

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Berkeley, CA

## EDUCATION

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**University of California, Berkeley | Berkeley, CA** Expected Graduation - May 2022  
College of Engineering: Bachelor of Science in EECS; Minor in Data Science GPA: 3.76

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

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|--|-------------------------|----------------------|
| <b>Coursework:</b> Cyber-Physical Systems* | Programming Languages*  | Machine Learning     |
| Probability Theory                         | Stochastic Processes    | Efficient Algorithms |
| Optimization Models                        | Data Science Principles | Data Structures      |
| Information Systems                        | Computer Architecture   |                      |

(\* Denotes In Progress)

## EXPERIENCE

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### Undergraduate Student Instructor (TA)

*UC Berkeley Data Science Department* 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.
- Maintained and updated the course website with weekly course materials, staff information, and calendar.
- Created a Python script to generate staff bio Markdown files by accessing the Google Sheets API.
- Met with small groups for guided discussion and presentation of homework problems.

*UC Berkeley EECS Department* Jun - Dec 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.

### Software Development Intern

*Amazon - Physical Stores Tech* 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.

### Research & Development Intern

*Hessian Pharmaceuticals* 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

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### Academic Committee Co-Chair

*Biomedical Engineering Society* 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.

## SKILLS

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|                     |        |        |              |                  |          |       |
|---------------------|--------|--------|--------------|------------------|----------|-------|
| <b>Languages</b>    | Python | Java   | SQL          | C                | HTML/CSS | LaTeX |
| <b>Technologies</b> | Numpy  | Pandas | Scikit-Learn | Spring Framework | Git      |       |

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