

# Joshua Rosen

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## EDUCATION

**University of California, Berkeley**

**Expected May 2025**

B.A. Data Science and Statistics

GPA: 3.68; Major GPA: 3.75

Relevant Coursework: Data Engineering, Optimization Methods, Data Structures, Principles of Data Science, Bayesian Data Analysis and Machine Learning, Concepts of Probability, Multivariable Calculus, Linear Algebra

## PROFESSIONAL EXPERIENCE

**KPMG US** | Data Engineering Intern

McLean, VA | **May - Aug 2024**

- Worked closely with a team of eight data analysts to transfer 115 tables and 13 million HR records from an outdated data warehouse into Azure Data Lake using databricks and alteryx workflows for data validation
- Created data pipelines from Azure Data Lake into the Visier platform to create dashboards for C-level executives
- Compiled an internal repository of all Enterprise Data Services projects finished since the COVID pandemic

**WellCloud.ai** | Machine Learning Intern

Berkeley, CA | **May - Sept. 2023**

- Developed a script to effectively and efficiently clean and parse 100,000+ FHIR-compliant health records
- Built out backend knowledge graph database using Neo4j and python to increase chatbot efficiency by 32%
- Supported the development of an OCR engine and autocomplete function to scan in user health records

**Berkeley Unified School District** | Research Assistant

Berkeley, CA | **Sept. - Dec 2023**

- Working with the Berkeley Unified School District (BUSD) to use CAASPP and Smartr balance test scores to better understand the achievement gap between racial and wealth groups within the public school system
- Cleaned, analyzed and visualized ten years of data to create a plan to close the gaps between these groups
- Created a script to allow the BUSD to recreate visualizations year over year to assess their academic programs
- Presented visualizations and findings to the Parent Advisory Committee and school board on Dec 14. 2023

**Data Science Discovery Program** | Undergraduate Research Assistant

Berkeley, CA | **Jan. - May 2023**

- Isolated variables to determine effective teaching strategies of environmental education practices in San Mateo and San Joaquin county and created data visualizations to share key findings and scale solutions
- Developed strategic recommendations to introduce environmental practices earlier in elementary schools to increase teaching effectiveness and student learning by ~48%

## LEADERSHIP AND EXTRACURRICULARS

**Medical Technologies at Berkeley** | President

Berkeley, CA | **Jan 2024 - Present**

- Oversee and manage over 75+ club members, holding weekly executive and club-wide meetings
- Teaching course on medical technology basic, techniques and advancements to 30 new club members
- Co-authored a paper on club-wide education process in the INTED2024-Valencia International conference

**Men's Club Volleyball** | Vice President

Berkeley, CA | **Sept. 2021 - Present**

- Plan annual Cal Classic Tournament, creating schedules for 30+ teams and coordinating referees
- Manage and oversee transactions for total budget of over \$20,000, including flights, hotels and referees
- Earned All-Tournament First Team at the 2022 Far-Westerns Tournament: 2x 1<sup>st</sup> team NCCVL All Conference: Top-10 finish at the USA Men's Club Volleyball National Championships

## SKILLS AND INTERESTS

Skills: Python, Java, NumPy, R, SQL, Pandas, Git, Matplotlib, Sklearn, Neo4j, Plotly, Keras, Pytorch, Alteryx

Interests: Grass Volleyball, Campfires and S'mores, Reading in a hammock, Vinyl, Exploring new hiking trails