

# Jake Kovinsky

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## Education

**University of California, Los Angeles (UCLA)**

**B.S. Cognitive Science with a Specialization in Computing**, Minor in Data Science Engineering (Graduated 2024)

GPA: 3.86

Relevant Coursework: Machine Learning, Data Science, Laboratory: Theory and Simulation, Probability, Statistics, Advanced Programming (C++)

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## Skills

- Programming Languages: Python, C++, MATLAB
  - Web Development: Frontend (Vite + React.js, HTML, CSS, JavaScript), Backend (Flask, PHP)
  - Machine Learning & Data Science: scikit-learn, PyTorch, NLTK, NumPy, pandas, matplotlib
  - Cloud & Tools: AWS (EC2, S3, RDS), Google Drive, Git, Jupyter Notebook, VS Code
  - Databases: SQL (MySQL)
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## Projects

**menunomics**— Restaurant Price-Item Discovery Tool (Team Project)

**October 2024 – Present**

*Full Stack Developer*

- Built a locally hosted website featuring user sign-up and login functionality, allowing for food/beverage lookups from a remote database.
- Developed a Python script to compute month-over-month price differences for over 65,000 menu items, attaining a runtime of 1.5 seconds.
- Designed relational database using MySQL and automated extractions, transformations, and loading (ETL) of data into usable types.
- Deployed an LLM agent using Mistral API to parse price-item pairings from menus and convert them into structured JSON format.
- Collaborated on logistic regression pipeline to classify HTML as a valid restaurant menu, achieving 92% accuracy and 0% false positive rate.

**Consulting for End Overdose** – Data Analysis & Predictive Modeling (Team Project)

**April 2022 – August 2022**

*Data Analyst*

- Cleaned and preprocessed national survey data with 10,000 respondents and 29 variables using Python for machine learning applications.
  - Led data visualization efforts to identify key demographic patterns and deliver actionable insights for targeted outreach strategies.
  - Developed a logistic regression model to predict overdoses, enhancing accuracy with feature selection and addressing class imbalance.
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## Relevant Experience

**UCLA Information Technology Services**

**March 2021 – June 2024**

*Senior Assistant Desktop Support Analyst*

- Resolved 25–30 hardware/software issues monthly for UCLA clients, using ServiceNow, Active Directory, Citrix, and Box.
- Managed 25% of user account deactivations, hardware returns, and recycling procedures across 15 departments.
- Updated student technical support documentation to streamline knowledge transfer and reduce training time for 20+ new hires.

**Keywords Studios at Adept AI**

**June 2023 – September 2023**

*Research Assistant*

- Established data collection rules for high quality training data to improve model behavior for a team of 15 data annotators.
- Used internal developer tools to collect 150 – 200 actions per day and properly label corresponding exemplars.
- Performed daily validation checks on training data submitted by data annotation team for quality assurance using Scale AI.

**The Prof G Media Company**

**June 2023 – September 2023**

*Writing Intern*

- Researched weekly topics for the "No Mercy/No Malice" newsletter using peer-reviewed articles and online databases.
- Created 2-3 data visualizations with Excel per newsletter, collaborating with the design team on final formats.
- Pitched a 1000-word article draft on the impact of excessive screen time on brain function, written in Scott Galloway's style.

**The Stack – Daily Bruin**

**October 2022 – December 2022**

*Stack Developer*

- Co-authored a report analyzing COVID-19's impact on UCLA research funding, highlighting significant increases in medicine.
- Designed interactive visualizations using Chart.js to effectively communicate funding trends and insights to a broad audience.
- Conducted interviews with administrators and consolidated diverse funding data into a unified dataset using Python.

**The Hebrew University of Jerusalem, School of Education and Psychology**

**June 2022 – August 2022**

*Research Assistant (PI: Prof. Itamar Gati)*

- Automated data cleaning for large-scale survey data with Python to support psychometric analysis in career decision-making research.
  - Organized data tables and figures in Excel for inclusion in research papers submitted to journals.
  - Proofread and edited research papers, ensuring APA compliance, with citations for contributions in the Journal of Career Assessment.
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## Activities & Leadership

**UCLA Ice Hockey Team**

**September 2020 – June 2024**

*Goaltender & Director of Operations*

- Led two fundraising campaigns on ScaleFunder, raising \$80,000 and reducing team dues by 40%.
- Administered the team's website, incorporating roster and schedule modifications when needed.