

Joey Kaminsky

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EDUCATION

Bachelor of Science in Data Science, *University of California San Diego*

Anticipated Graduation: June 2025

Minors in Cognitive Science, Finance

GPA: 3.98

- Awarded Provost Honors for all 9 completed quarters.
- *Relevant Courses:* Data Structures & Algorithms, Blockchain, Scalable Analytics, Data Mining, Database Management, Advanced Probability, Web Design, Data Visualization, Data Science Foundations, Linear Algebra, Machine Learning, Business Analytics.

EXPERIENCE

NASA | Data Analytics Intern

May 2024 – Present

- Developed 3 analytical reports with Power BI, Azure Databricks, Python, and SQL.
 - Presented the actionable insights to senior audit directors.
- Consolidated 300+ pages of ACL local data import and analysis code into an R script with dynamic web-API imports.
- Created and presented a Power BI Python/R scripting demonstration to ~100 coworkers.

Bioregional Center at UC San Diego | Data Analytics Specialist

October 2023 – Present

- Function as the data science lead; handle analytical requests, advise project trajectories, and liaise with technical stakeholders.
- Utilized ArcGIS, SQL, Python, and image recognition machine learning to geographically analyze farm data to identify vacant lots to set up community gardens.
 - Identifying hedge rows in the San Joaquin valley using the same research and analysis process.
- Led vacant lot, tree, and farmers' market field research and analysis efforts using Python, Excel, and SQL.
- Reconstructed and updated the Bioregional Center website with Javascript, HTML, and CSS.

San Diego Supercomputer Center | Data Engineer

December 2022 – October 2023

- Developed an analysis workbench with Python and Kubernetes that ingests datasets, images, and maps to conduct 20 forms of analysis—with image, network, and spatial analysis being the most used.
- Wrote a Python script that utilizes web scraping and facial recognition machine learning to curate image data for databases.
 - Presented the published work at Our Water Data Future conference.
- Combined the functionalities of SuAVE, CorpusDB, and OpenAlex API to collaboratively gather and organize data.
- Improved logistics and analysis for the San Diego Unified School District COVID-19 Limesurvey screener, providing updated and accurate medical recommendations to 10,000+ users.
- Created a documentation website for my projects, SuAVE, and other relevant software, using Javascript, HTML, and CSS.

MedSpan Research | Database Programmer

Aug 2021 – July 2022

- Created and managed client databases of up to 30,000 entries.
- Collected and analyzed data in Salesforce and Power BI to increase success rate in reaching out to potential clients.
- Coded 90 surveys using Qualtrics and Excel mappings.
- Set up and controlled row level security across databases to protect important data.

INVOLVEMENT

Deloitte Mentorship | Project Lead

March 2024 – June 2024

- Developed a geographic product recommender system utilizing Python, machine learning techniques, and Tableau, leveraging insights on free cash flow derived from a large dataset.
- Exceeded head of program's expectations; was noted that the "project was flawless...resulted in realistic and valuable insights".

Data Science Student Society Consulting | Data Consultant

March 2024 – June 2024

- Migrated data from legacy system to relational database; created and utilized Python script to prevent possible conversion issues.
- Created a dynamic athlete performance rating system within AWS using a data-update scheduler for automatic updates.

San Diego Supercomputer Center | Content Writer, Intern Team Lead

January 2023 - December 2023

- Wrote 3 articles in the fields of technology and data science.
- Helped 7 high school interns formulate a data science question, guided their research and analysis, and edited their findings articles.

PROJECTS

Sweat-Free Bet: A Sports Betting Arbitrage Company

2024

- Created script that scrapes 20+ gambling sites bidaily to identify arbitrage betting opportunities via AWS S3, Lambda, Cloudwatch.
 - Up 100 units in 4 weeks.
- Working on website with Javascript, HTML, and CSS and planning social media marketing strategy.

NBA 2K Rating Predictor - Does All-Star Voting Impact Player Rating?

2023

- Web scraped NBA statistics and all-star voting data to determine which statistics factor into the NBA 2K player rating system.
- Created linear regression with 86% accuracy; determined popularity statistics play a role in NBA 2K player rating.

ArcGIS Tree Mapping Data

- Gathered, cleaned, and formatted tree data to geographically analyze tree coverage.
 - Effort works towards a project that aims to predict tree lifespans and coverage in the San Diego area.

Wordle Guesser

- Optimally solves the daily Wordle using word frequency analysis, web scraping, and Python coding techniques.
 - Encoded a guesser for the 4-number guessing game to prepare.

Python Personalized Stock Tracker

2022

- Runs current stock data and articles through model trained on common stock movements and web-scraped current articles to identify potential investment risks and opportunities.
- Executes every hour via AWS S3, Lambda, Cloudwatch; emails portfolio summaries and potential stock movements.

ARTICLES, PUBLICATIONS, AND WEBSITES

Articles

- COVID-19 e-Decision Tree Continues Keeping K-12 Students Safe* June 2023
 - https://www.sdsc.edu/News_Items/PR20230712_e-Decision_Tree.html

Publications

- Fernald, A., Atkins, A., Kirkpatrick, C., Tang, C., **Kaminsky, J.**, & Zaslavsky, I. "The connectedness of transboundary groundwater researchers: from network analysis to network-building." The International Association of Hydrogeologists (2023): Page 135.
 - https://pureportal.spbu.ru/files/114659659/2_IAH_Programme_Oral_Abstracts.pdf

Websites

- Bioregional Center: <https://bioregionalcenter.ucsd.edu/>
- Survey Analysis for Visual Exploration (SuAVE): <https://suave-ucsd.github.io/SuAVE-Documentation/>
- Personal Website: <https://jkaminsky2.github.io/portfolio-website/>

SKILLS & INTERESTS

Programming Languages: Python, SQL, R, JavaScript, Java, HTML, CSS, ACL

Tools & Technologies: AWS (S3, EC2, Lambda, and Cloudwatch), Power BI, ArcGIS, Qualtrics, Excel, Limesurvey, Salesforce, Tableau, React.js, Node.js, Git, Azure Databricks, Kubernetes

Python Packages: Pandas, Tensorflow, Dask, Apache Spark, Sklearn, Keras, Seaborn, NumPy, Matplotlib, NetworkX, GeoPandas, OpenCV

Interests: Weightlifting, Reading, Football, Basketball, Spikeball, Investing, Blockchain, Quantum Computing, Computer Programming

Other Organizations: Data Science Student Society, Society of Undergraduate Mathematics Students, Intramural Basketball and Baseball