Joey Kaminsky

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I am a diligent third-year data science student at the University of California San Diego with a passion for learning. I am also a driven data science engineer who uses a wide range of tools to deliver analytics and insights to help drive success.

EDUCATION

Bachelor of Science in Data Science, *University of California San Diego,* La Jolla, CA   Anticipated June 2025
  Minoring in Finance and Cognitive Science
  GPA: 3.98
  - Awarded Provost Honors for all seven completed quarters
  - Data Science Student Society Member
  - Eta Kappa Nu Engineering Honor Society Member

High School Diploma, *William Fremd High School*, Palatine, IL   May 2021
  GPA: 3.92 Unweighted, 4.71 Weighted | SAT: 1510 (800 in Math and 710 in Evidence-Based Reading and Writing)
  - Awarded Academic Scholar, AP Scholar With Distinction, Seal of Biliteracy in Spanish

EXPERIENCE

Bioregional Center Data ITS Developer   September 2023 – Present
University of California San Diego, La Jolla, CA

  - Utilize ArcGIS, SQL, Python, and image recognition machine learning to geographically analyze farm data to identify and solve food deserts.
  - Create and present analysis on survey, spatial, and network visualization data.
  - Lead data collection, visualization, and analysis efforts in the San Diego community using Python, Excel, and SQL.

National Science Foundation Research Experience for Undergraduates Intern December 2022 – October 2023
San Diego Supercomputer Center, San Diego, CA

  - Developed a Python-based analysis workbench that reads in database files that include images, JSON network data, and maps to conduct 20 forms of analysis, ranging from image analysis to network analysis.
    - Modified functionality to work on four different servers.
  - Utilized Python, web scraping, and facial recognition machine learning to curate image data for databases.
    - Presented work at Our Water Data Future conference.
  - Combined the functionalities of SuAVE, CorpusDB, and OpenAlex API to collaboratively gather and organize data.
  - Improved the logistics and analysis behind the San Diego Unified School District COVID-19 screener.
    - Provided relevant and accurate medical recommendations for 5,000+ users.

Database Programmer   August 2021 – July 2022
MedSpan Research, South Barrington, IL

  - Created and managed client databases of up to 30,000 entries.
  - Collected and analyzed data in the cloud platform Salesforce and Power BI to increase success rate in reaching out to potential clients for a project.
  - Coded 90 surveys using Qualtrics and Excel.
  - Set up and controlled user access levels across databases to protect important data.

VOLUNTEER

Community Outreach, *Eta Kappa Nu,* La Jolla, CA   December 2022 – Present
  - Help inspire future engineers in middle and high school through leading engineering activities.

Content Writer, *San Diego Supercomputer Center,* La Jolla, CA   January 2023 – Present
  - Write articles in the fields of technology and data science.

PERSONAL PROJECTS

NBA 2K Rating Predictor - Does All-Star Voting Impact Player Rating?   September 2023 - December 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.
    - Statistically determined popularity statistics play a role in determining NBA 2K player rating.

ArcGIS Tree Mapping Data   September 2023 - November 2023
- Gathered, cleaned, and formatted tree data to geographically analyze tree coverage.
    - Project works towards a project that aims to predict tree lifespans and coverage in the San Diego area.

Wordle Guesser   July 2023 - August 2023
- 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 for this project.

Food.com Recipe Data Hypothesis Testing   March 2023 - June 2023
- Conducted data science hypothesis tests to determine if relationships exist between the data and recipe ratings.

Image Generator   February 2023 - April 2023
- Given a dataset of individuals, this code generates accurate images for each entry in a time-efficient manner.

Python Personalized Stock Tracker   March 2022 - January 2023
- Analyzes the stock market, common stock movements, and related articles and emails portfolio summaries and potential stock movements.

ADDITIONAL SKILLS

Data Related

Python, SQL, R, Java, Javascript, Excel, Git, Salesforce, PowerBI, ArcGIS, Google Earth Engine, Qualtrics, SuAVE, Limesurvey, Data Modeling, Network Analysis, Web Design, Web Scraping, Data Cleaning

Python Packages: Pandas, Tensorlow, Sklearn, Keras, Seaborn, NumPy, Matplotlib, Plotly, NetworkX, GeoPandas

Other

Dedication, Teamwork, Communication, Problem-Solving Abilities

ARTICLES AND PUBLICATIONS

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