

Niki Tavakoli

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Education

University of Southern California

M.S. Biomedical Engineering • Los Angeles, CA • GPA 3.9 • 2021
Graduate Specialization(s): Biomedical Data Sciences & Programming
Leadership: Women in Science & Engineering, Graduate Student Government
Relevant Coursework: Signals & Systems, Databases, Machine Learning, Bioinformatics

University of California, Los Angeles

B.A. Psychology • Los Angeles, CA • GPA 3.7 • 2018
Graduate Specialization(s): Neuropsychology & Biology
Regent's Scholarship Recipient: full paid scholarship for undergraduate studies
Relevant Coursework: Multivariable Calculus, Linear Algebra, Organic Chemistry, Molecular & Cellular Biology, Physics, Statistics

Experience

Leaf Group 🌿💻

Data Science Intern • Santa Monica, CA • Nov 2019 – May 2020

Utilized the Google BigQuery API in Python to reduce over 10 million rows of JSON content data from MongoDB into hundreds with highest calculated potential to improve SEO. Trained data using a prediction model that ultimately resulted in quick and efficient content improvements. Performed web scraping on data sources to create high-level and interactive data visualizations for company sites.

USC Keck School of Medicine 🏥🧬

Research Intern • Los Angeles, CA • Jun 2019 – Aug 2019

Analyzed and compiled large amounts of quantitative research data from prior studies conducted on the gut microbiota of HIV patients and co-created a large NoSQL database that could be easily queried by doctors and researchers. Resulted in efficient bioinformatics pipeline and NGS to be built off of data knowledge.

Peak Brain Institute 🧠📈

Neurofeedback Intern • Los Angeles, CA • Jun 2017 – Aug 2018

Administered electroencephalograms (EEG's) on patients through the use of EEGr4 software. Computationally edited out noisy data and marked abnormal wave activity to export QEEG brain charts that were utilized by the lead doctor in patient analysis. Conducted EEG Biofeedback training sessions on patients and managed frequency protocols.

USC Viterbi School of Engineering 📐📦

Summer Programs TA & STEM Assistant • Los Angeles, CA • Aug 2019 – Present

TA and grader in the course ENG CORE-195, an introductory engineering course with topics including robotics design/programming with Arduino, structure modeling, circuit design, and Physics concepts/mathematics. Organize and help build curricula for hands-on events and science camps hosted by USC Engineering students and faculty.

Skills

Languages | Python (Pandas, NumPy, Scikit-Learn), SQL, JavaScript, MatLab/Simulink
Database Management | MongoDB, PostgreSQL, Google BigQuery
Data Visualization | Matplotlib, Plotly, Seaborn
Technologies | TensorFlow, Google Cloud Platform, Git, HTML5/CSS3