

EDUCATION

University of California, Santa Barbara

Santa Barbara, CA

B.S. in Actuarial Science, GPA: 3.77/4.0

Sep 2019 – Dec 2022

- **Courses:** Data Structures and Algorithms, Applied Machine Learning, Introduction to Python, Stochastic Processes, Time Series, Linear Regression Analysis, Statistical Inference, Bayesian theory, Data Visualization
- **Online Certificates:** Operating System (Coursera), Computer Organization (Coursera), Discrete Mathematics Generality (Coursera), The Bits and Bytes of Computer Networking (Coursera), Node.js (Udemy)
- **Dean's Honor List:** Spring 2020, Summer 2021, Fall 2021, Winter 2021, Spring 2022

WORK EXPERIENCE

SAP

Shanghai, China

Software Engineer Intern

Oct 2023 – Apr 2024

- Implemented a back-end server for SAP's internal Digital School web application utilizing the SAP Cloud Application Programming Model (CAP), facilitating consistent and responsive UI interactions through reliable data management and API integration.
- Designed and developed an AI-driven web application for SAP's automated internal newsletter creation, leveraging HTML, CSS, and Node.js. Additionally, integrated the OpenAI API for dynamic content generation and DALL-E API for corresponding visual elements, significantly enhancing the efficiency and productivity of the media staff.

Newsbreak

Mountain View, CA

Machine Learning Engineer Intern

Jan 2023 – Jul 2023

- Utilized Presto SQL to design a user-interactive graphical template, which automated SQL queries and presented results in predefined charts, thereby aiding decision-making for business departments.
- Applied Deep Learning frameworks PyTorch and Scikit-Learn to quantify the relationship of user attributes and associated ad revenue, evaluating the correlation using Relative Squared Error (RSE).
- Optimized a supervised gradient boosting model by identifying and integrating 50 user attributes with positive correlation to ad revenue, reducing the Relative Squared Error (RSE) from 99% to 60% and thus enhancing the precision of revenue predictions.
- Utilized the Airflow platform and Scala programming language for daily database maintenance, ensuring that the lifespan of the advertisement data stored in the database does not exceed the corresponding social media company's desired ad retention time.

Ebridge Ventures

Boston, MA

Data Science Intern

Jul 2021 – Sep 2021

- Implemented a stress testing tool using Python (Numpy) in order to optimize the verification of volatility derivatives portfolios, reducing the time of the testing process by 15%.
- Created a graphical data modeling tool using Python to analyze CSV files containing the prices of trending stocks to predict their rolling returns.

SKILLS

Languages: Python, Java, MySQL, R, Matlab, Scala, Bash, HTML, CSS, Node.js, Swift

Technologies: MongoDB, Tableau, Firebase, SwiftUI, PyTorch, Airflow, Langchain

LEADERSHIP & COMMUNITY SERVICE

UC Santa Barbara Student Association & Mentor Collective

Santa Barbara, CA

Marketing Director & Mentor

May 2021 – Sep 2022

- Collected and presented disabled students' complaints about campus accessibility to UC Santa Barbara faculty, resulting in the lowering of buttons' locations on elevators.
- Hosted networking and outreach events for students with disabilities, creating a forum for sharing personal success anecdotes, enhancing their representation and engagement within the college community.
- Served as the social media manager by creating posts promoting events as well as raising awareness for the disabled student community.
- Guided incoming freshmen by aiding them in their course selection and hosting events that would help connect them with their first summer internships.