

EDUCATION

M.S. Computer Science | University of California, Santa Barbara Expected Jun 2023

- Responsible Machine Learning research focusing on AI Safety + Transparency advised by Professors William Yang Wang and Shiyu Chang

B.S. Computer Science | University of California, Santa Barbara Aug 2019 - Jun 2022

- GPA: 4.00 | Highest Honors | Distinction in the Major
- Programs: College of Engineering Honors, Early Research Scholars, Undergraduate Learning Assistant, Senior Capstone
- Courses: Natural Language Processing, Machine Learning, Data Structures, Algorithms, Linear Algebra, Vector Calculus, Discrete Math

EXPERIENCE

Two Sigma | Research Scientist Intern, AI Core Jun 2022 - Aug 2022

- Explore the influence of noisy features to predict market impact by leveraging modern deep neural network technologies.

Benchling | Software Engineering Intern, Machine Learning & Insights Apr 2022 - Jun 2022

- Implemented a non-linear regression outlier detection algorithm using significance tests on residuals in a robust regression fitting.
- Engineered a full-stack solution (**React/Typescript/Python**) to enable users to detect and exclude outliers automatically from their data.

Amazon | Software Engineering Intern, AWS Workspaces Jun 2021 - Sep 2021

- Scoped, designed, and implemented an internal billing auditing API to provide customers insightful data usage metrics.
- Leveraged **AWS microservices** (i.e., DynamoDB, Lambda, API Gateway) to improve existing **Java**-based billing service.

Procore | Software Engineering Intern, Business Systems Engineering Mar 2020 - Mar 2021

- Delivered solutions to support new pricing models for a **React on Rails** pricing calculator used by 500+ sales reps during negotiations.
- Devised **Python** scripts to automate data integrations impacting 10K+ records between business systems such as Zuora and Salesforce.

PROJECTS

Alexmeicooking | alexmeicooking.com Jun 2017 - present

- Found a modern **React/Flask/Postgres** cooking site featuring over 100+ recipes to promote healthy home cooking.
- Integrate with the Edamam API for automatic comprehensive nutrition fact analysis for all newly posted recipes.
- Achieve 85,000+ monthly social media engagement and 900+ active users from over 40 countries.

Stock Value Calculator | github.com/alexmeigz/StockValueCalculator Nov 2019 - Feb 2020

- Developed **Python Selenium**-based Javascript web scraper to gather and clean financial statistics for data analysis.
- Programmed financial calculator utilizing the **Pandas** module to derive stocks' intrinsic value from company finances.

LEADERSHIP

CodePath at UCSB | Co-Founder Oct 2020 - Jun 2021

- Piloted CodePath at UC Santa Barbara, teaching 16 students iOS design principles and app development with **Swift**.
- Cultivated students' capstone projects from design to implementation, employing **Agile** practices for clarity and efficiency.

UCSB Robotics | Software Team Lead May 2020 - Jun 2021

- Designed 12+ technical workshops to empower members of all majors with foundational software and robotics concepts for success.
- Led 20+ members in small team project development, exploring the intersections of machine learning and robotics.

PUBLICATIONS

Mei et al. *Mitigating Covertly Unsafe Text within Natural Language Systems*. (in review for EMNLP 2022.)

Mei et al. *What Does AI Transparency Really Mean?* (in review for JAIR.)

Mei et al. *Learning to Prioritize: Precision-Driven Sentence Filtering for Long Text Summarization*. LREC 2022. [paper]

AWARDS

Undergraduate Research Excellence *Demonstrated excellence in leadership of research projects* Jun 2022

Outstanding Senior *Ranked 1st in the graduating class of 2022 UCSB Computer Science* Jun 2022

Capstone Best Project *1st place team in UCSB's Computer Science Capstone in 2021 - 2022* Mar 2022

SKILLS

Programming: Python, C++, Ruby, Java, Javascript, SQL, HTML, CSS

Toolbox: Git, Jupyter, AWS, Huggingface, Pytorch, Tensorflow, Pandas, Matplotlib, Tableau, React, Rails, Flask, Selenium, Postman