

EDUCATION

Masters of Science (M.S.), Computer Science | University of California, Santa Barbara Sep 2021 - Jun 2023

- Specialization in responsible AI (safety, transparency) and natural language generation (reasoning, data augmentation).
- Mentored 8 undergraduate students to submit 2+ research papers on vision and language to leading NLP conferences.

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

- GPA: 4.00 | Highest Honors | Distinction in the Major | College of Engineering Honors

EXPERIENCE

Two Sigma | AI Research Scientist, AI Core Jul 2023 - present

- Create diverse financial solutions by utilizing modern deep learning techniques.

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

- Explored the influence of noisy financial features to predict the market impact of variable size position changes.
- Applied deep neural network technologies to learn an end-to-end, systematic, real-valued predictor.

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

- Implemented a non-linear regression outlier detection algorithm by testing for statistical significance on robust residuals.
- Engineered a full-stack solution (**React/Typescript/Python**) to enable users to detect and exclude outliers 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 with 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.
- Devised **Python** scripts to automate data integrations impacting 10K+ records between business systems.

PROJECTS

Alexmeicooking | alexmeicooking.com Jun 2017 - present

- Found a **React/Flask/Postgres** cooking site with 100+ recipes and nutrition analysis to promote healthy home cooking.
- Achieve 100,000+ monthly social media engagements 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.

PUBLICATIONS

Mei et al. *Foveate, Attribute, and Rationalize: Towards Safe and Trustworthy AI*. ACL 2023. [preprint]

Mei et al. *Mitigating Covertly Unsafe Text within Natural Language Systems*. EMNLP 2022. [paper]

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

Mei et al. *What Does AI Transparency Really Mean?* (in review.) [preprint]

Mei et al. *ASSERT: Automated Safety Scenario Red Teaming for Evaluating the Robustness of Large Language Models*. (in review.)

AWARDS

B.S./M.S. Student of the Year *Recognized for passionate, substantial, and impactful contributions to AI research.* Jun 2023

Teaching Assistant of the Year *Praised for innovative teaching and quoted to be my advisor's best TA in 15 years.* Jun 2023

University Award of Distinction *Awarded for leadership in academic mentorship and promotion of diversity in CS.* Jun 2023

Outstanding Senior *Ranked 1st academically among the entire UCSB College of Engineering 2022 graduating class.* Jun 2022

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

SKILLS

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

Courses: Natural Language Processing, Deep Learning, Computer Vision, Information Retrieval, Data Structures, Algorithms

Toolbox: Huggingface, Pytorch, Tensorflow, Scikit-Learn, Keras, Pandas, Matplotlib, Jupyter, AWS, Git, Tableau, Flask, React, Rails