Alex Mei

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EDUCATION:

University of California: Santa Barbara   Aug 2019 - Jun 2022

- Bachelor of Science: Computer Science | Minor: Statistics
- GPA: 4.00
- Programs: College of Engineering Honors, Early Research Scholars, Undergraduate Learning Assistant
- Relevant Courses: Data Structures & Algorithms, Object-Oriented Design, Computational Science, Multivariate Calculus, Automata & Formal Languages, Discrete Math, Linear Algebra, Probability & Statistics I + II, Differential Equations

RELEVANT EXPERIENCE:

Undergraduate Researcher | UCSB Natural Language Processing Group   Oct 2020 - present

- Cleaned, formatted, and represented a text dataset containing 1,500,000+ records using BERT for model analysis.
- Constructed a Random Forest model to determine the sequential ordering of instructional texts with ordered steps.

IT Software Intern | Procore Technologies   Mar 2020 - present

- Maintained functionality of a Pricing Calculator React on Rails webapp for hundreds of sales reps to use for negotiations daily and engineered solutions to support new company pricing models, discounts, and restrictions by geolocation.
- Harnessed Workato for data transfer automation between systems such as Amazon S3, Netsuite, and Salesforce.
- Devised Python scripts to make API requests to Zuora and Workday to automate the data upload and update processes.
- Received substantial praise internally for making substantial progress on projects in minimal time with diligent testing.

SELECTED PROJECTS:

Rubik's Cube Solver   Jan 2020 - present

- Utilized Google Cloud's Vision API to extract dominant colors of a Rubik's Cube's image partitions.
- Deployed the K-Means Clustering algorithm to recognize Rubik's Cube face colors with upwards of a 95% accuracy rate.

Stock Value Calculator   Nov 2019 - present

- Developed a Javascript web scraper using Python Selenium to gather and clean financial statistics.
- Programmed a financial calculator using Pandas to derive a stock's intrinsic value using company finances.

alexmeicooking.com   Jun 2017 - present

- Engineered a website using HTML and CSS featuring personal cooking recipes, gaining 900 users from over 40 countries.
- Crafted 100+ cooking recipes to promote healthier food choices and creative, yet simply delicious home cooking.
- Implemented the site to support both desktop and mobile users, ensuring readability for those reading in the kitchen.

LEADERSHIP:

Software Team Lead | UCSB Robotics   May 2020 - present

- Designed 8 projects and workshops to empower members with the hands-on experience to apply to future challenges.
- Led 20+ team members to employ Agile development practices, increasing design clarity and implementation efficiency.

Project Team Lead | Nutriflix   Oct 2020 - Dec 2020

- Created a React webapp to promote healthy eating and dieting with a Flask + Postgres backend to store user content.
- Integrated application with Edamam API for automatic nutrition fact analysis for newly posted recipes.
- Drove team members in daily scrum meetings and biweekly sprints to ensure project deliverables meet deadlines.

SKILLS:

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

Frameworks & Technologies: Git, React, Rails, Flask, Selenium, Jupyter, Pandas, Numpy, Workato, Tableau, Postman