Alex Feghhi

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WORK EXPERIENCE

Jumbula   **Fall 2023 – Present**
Software Engineer   *San Mateo, CA*
- Worked on front-end web development for the company website redesign
- Helped create a cross platform application with Flutter
- Presented business analytics data to shareholders

NASA Advanced Supercomputing Division   **May 2019 - May 2020**
Research Assistant   *Moffett Field, CA*
- Worked on a machine learning project predicting sunspot emergence using magnetic images
- Created an optimized python data pipeline for downloading and processing server input data and downloading and rendering output, leading in 256x speed increase.
- Used pytorch CGANs and CNNs for image-to-image and image-to-scalar prediction

EDUCATION

University of California, Santa Cruz   **June, 2023**
Bachelor of Science in Cognitive Science, Minor in Computer Science   *Santa Cruz, Ca*
- 3.9/4.0 GPA
- Dean's Honors: Fall 2021, Winter 2022, Fall 2022, Winter 2023, Spring 2023

Relevant Coursework:
- CSE 13: Computer Systems and C Programming, CSE 30: Programming Abstractions: Python, CSE 101: Data Structures & Algorithms, CSE 140: Artificial Intelligence, CSE 143: Natural Language Processing

Research:
- UCSC SamahaLab: Helped run experiments and performed data preprocessing in Matlab
- UCSC Computational & Experimental Cognition Lab: Wrote 95% accurate python speech detection software
- UCSC AIEA Lab: Developed algorithms to quantify the dangerousness of autonomous vehicle situations

PROJECTS

NeuroTechSC   **September, 2021 - June 2022**
Machine Learning Team   *Santa Cruz, Ca*
- Student organization part of a yearly competition for the design of neurotechnology projects
- Studied classification of visually evoked brain signals for a team designing a Brain-Computer Interface
- Designed a tensorflow CNN + LSTM network achieving 98% accuracy on individual users

Personal Website & Blog   **March 2024 - Present**
- Used html, css, javascript, python(django) and figma to design a personal website and blog
- Features include admin portal with post editing functionality, responsive design across desktop and mobile, as well as pagination and search with text and by tags

CERTIFICATES

Coursera
- **Google:** *Google Data Analytics Professional Certificate*   **December, 2022**
- **DeepLearning.AI:** *Deep Learning Specialization*   **June, 2018**

SKILLS & INTERESTS

- **Software Engineering:** HTML, CSS, Javascript, Python(Django), Flutter, C, C++
- **Data Science:** Python(matplotlib), SQL, R, Tableau, Excel, Matlab
- **AI:** Neural Networks(CNN, RNN, Transformers, GAN), Python(tensorflow, pytorch)
- **Languages:** English, Spanish, Portuguese, Farsi