

# Alex Fegghi

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## WORK EXPERIENCE

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### Jumbula

Fall 2023 – Present

*Software Engineer*

*Santa Cruz, CA*

- Integrated a customer support chatbot using OpenAI API
- Designed and styled front-end pages

### UCSC Computational & Experimental Cognition Lab

Fall 2022 – Present

*Research Assistant*

*Santa Cruz, CA*

- Cognitive Science research lab using AI to study the minimal processing unit of speech
- Data preprocessing from raw video to response clips
- Wrote python software detecting speech onset and offset with 95% accuracy

### 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 resizing input magnetic images and rendering output images from sunspot data with user selected time intervals, number of images, size and rendering method, increasing speed by a factor of approximately 256
- Used pytorch CGANs and CNNs for image-to-image and image-to-scalar prediction

## EDUCATION

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### 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

*Student Organizations*

- Cognitive Science Student Association
- Iranian Student Union

*Relevant Coursework:*

- *Programming Abstractions in Python, Computer Systems in C, Data Structures & Algorithms, Introduction to Algorithm Analysis, Artificial Intelligence*

## PROJECTS

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### 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

### Foothill Community College Research and Service Leadership Symposium

May, 2021

- Symposium for students to present individual projects
- Used python modeling for a computation psychology project analyzing social conformity

## CERTIFICATES

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### Coursera

- **Google:** *Google Data Analytics Professional Certificate*
- **DeepLearning.AI:** *Deep Learning Specialization*

December, 2022

June, 2018

## SKILLS & INTERESTS

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- **Skills :** *SQL, R, Excel, Tableau, Matlab, C, C++, Java, Python, HTML, CSS, Javascript*
- **Interests :** *Brazilian Jiu-Jitsu, Wrestling, Chess, League of Legends*