Josh Arnold

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Work experience

A.I. Research Assistant—Professor Zhou Yu's lab, UC Davis
Summer, 2018

- Developing a multimodal chatbot integrating vision and text in PyTorch
- Working with deep neural networks, including Long-Short-Term-Memory Networks and Convolutional Neural Networks
- Implementing a hierarchical reinforcement learning model

Primary Skills

Machine Learning

- Member of two labs at UC Davis, working with machine learning
- Fluent in *Python*, familiar with *PyTorch, Keras, Scikit-learn* and *Pandas*

iOS Development

- Published over *5 apps* on the App Store
- Fluent in *Swift 4*, familiar with *Objective-C, CocoaPods* and *Auto-layout*

Web Development

- Fluent in *HTML* & *CSS*, familiar with *Javascript* & responsive web frameworks such as *bulma.io* & *bootstrap*

Backend

- Worked with various backend/server frameworks, such as *Firebase, Flask, Node.js*, in addition to *NoSQL databases* implemented with *Parse Server*

Awards

Best Data Science Hack—TreeHacks, Stanford Hackathon
2018

- Developed a web platform that can generate new potential medicines using machine learning
- Used natural language processing and an auto encoder

Best Mobile App—CalHacks, UC Berkeley Hackathon
2017

- Created an iPad app where a user can graphically create UI for mobile apps then convert to code for iOS apps

Best Health Hack—HackDavis, UC Davis Hackathon
2017

- Created a machine learning algorithm that predicts the probability of a drug binding to its biological target

Education

B.S Computer Science & Engineering—University of California, Davis
2017 - 2021

- Dean's Honor List Fall Quarter, 2018
- Dean's Honor List Spring Quarter, 2018
- Boeing Scholar Recipient

Stanford Summer Session—Stanford University
Summer, 2018

- STATS101 & STATS216v