

EDUCATION

California Polytechnic University, San Luis Obispo, California

B.S of Computer Science

September 2017 – June 2021

Relevant Courses: Data Structures, Algorithms, Data Science, Artificial Intelligence, Database Modeling and Implementation, Human and User Centered Interaction, Operating Systems, Programming Languages, Theory of Computation, Computer Architecture, Graph Theory, Combinatorics, Game Theory

TECHNICAL SKILLS

Languages: Python, Java, Javascript, C, SQL

Data Science Frameworks: Numpy, Pandas, Tensorflow and Keras, PyTorch and Fast.ai

Web Frameworks: React.js, Angular, Django, Node.js and Express

Prototyping Tools: Adobe XD, Figma, Invision, Miro, Balsamiq

EXPERIENCE

Secure Taction Startup

Software Engineer

November 2020 – Present

Created 3 user personas using data from 15 moderated remote user interviews conducted over Zoom
Developing a smart fraud detection application using Tensorflow, Keras, Django, and React

Cal Poly

Research Assistant

September 2018 – Present

Created a command line utility to optimize properties of n-monomer reactions using Python and genetic algorithm pseudocode
Showed research at the Western Coating Show amongst other polymer related research
Refining the command line utility to incorporate the use of machine learning pipelines with minimal overfitting using Tensorflow and Keras

SLO Hacks

Web Developer / Tech Team Member

September 2017 – April 2019

Followed best agile practices through weekly standup and check-ins
Helped build a hacker-centric atmosphere on campus through in-person advertising
Created an attendee application system in React and Firebase to manage over 500 decisions for our flagship event, SLO Hacks
Made landing pages in React and Gatsby to provide information to potential attendees about various different events that would be hosted

PROJECTS

Autonomous UAS Inventory Management

Built a fast.ai multilabel classifier to detect different fiducial tags in images
Used different computer vision frameworks (OpenCV, BoofCV, etc.) to decode QR codes in images
Constructed datasets through onsite data collection and labelling through labelbox
Development has ceased and more information can be found on my GitHub

Brian Bot

Welcomes new users to Discord guilds to help out new users joining a community
Talks to users entering a voice channel using Google's TTS Python API
Invites users to a Discord guild's GitHub organization using GitHub's Python API
Development is still in progress and more information can be found on my GitHub

POSTERS

Multiple Objective Optimization of Coating Resin Synthesis using Evolutionary Search

Western Coatings Symposium and Show

October 2019

Stanley Armstrong, Anthony Griffin, André Lagron, Madeline Schultz, William Thompson, Erik Sapper