

Education

University of California, Santa Barbara

September 2017 - March 2021

Bachelors of Science, **Computer Science** | Minor in **Statistics** | **GPA: 3.62**

Experience

Software Development Engineer Intern // Amazon

June 2020 - September 2020

- Stood up an interactive metrics page used by **2,000+** Alexa Connect Kit partners to provide insight on **45 million** consumer units.
- Set up backend services in Hex and S3 to provide API support for Alexa Smart Home teams.

Software Engineering Intern // Tesla Motors

March 2020 - June 2020

- Provided support to the Service Engineering team in building out components for web interface used by **75,000+** service technicians.
- Trained an NLP model to map customer narratives to a diagnosis and a plan to fix.
- Implemented search functionality to navigate **200,000+** articles in the knowledge base.

Machine Learning & Data Science Intern // Hewlett-Packard Inc.

June 2019 - August 2019

- Implemented various Big Data methodologies to establish an efficient data pipeline for **8+** years worth of hp.com consumer data.
- Streamlined data science and machine learning process for staff engineers by deploying new database architectures.
- Trained a reinforcement learning model to create propensity scores based on audience behavioral insights.

Data Analyst // UCSB Neuroscience Institute: Goard Labs

November 2017 - June 2018

- Produced and maintained high quality code to analyze and display data based on mice response to virtual reality (VR) stimuli.
- Developed hardware and software tools to automate the process of handling live mice into a VR rig with Arduino, Matlab, and Python.

Projects

Ypredictor // Python, Tensorflow

- Designed and coded a reinforcement learning LSTM model to predict future stock prices for popular stocks traded on the NYSE.
- Provided stable economies with improvements occurring in each iteration with a **91%** accuracy.
- Implemented sentiment analysis derived from Twitter mentions.

GitLeg // HTML/CSS/JavaScript, React, Node.js, Postman, MongoDB

- Created a bootleg cloud storage system using encrypted storage in private Github repositories through a web interface.
- Implemented a dashboard interface using React and Bootstrap with a backend in MongoDB.

DIY OneWheel (Open Source Project) // ROS, Arduino, CAD, Circuit design, Woodworking

- Developing speed controller and Li-ion battery configuration for an self-balancing electric skateboard-like vehicle.
- Creating coherent documentation and communicating with manufacturers to establish a replicable community project.

Pied Packet // HTML/CSS/JavaScript, Angular, Node.js, Postman, MongoDB

- Created an integrated development environment (IDE) for switch/router programming with intuitive UI utilities using the MEAN stack.
- Implemented a workflow to efficiently increase month-over-month platform usability by **13%**.

Skills

Programming Languages

Go, C/C++, Java, Python, SQL, HTML/CSS/JavaScript

Technologies/ Frameworks

Tensorflow, OpenCV, Vertica, AWS (Redshift/S3), Android Studio, Tableau, MongoDB, Kubernetes, Docker, Spark Java, Selenium, React, Angular, Spring, Heroku, Postman, Atlassian, Git, Node, Maven

Courses

Machine Learning, Formal Languages & Automata, Computer Vision, Data Structures & Algorithms, Parallel Computing, Computer Architecture, Computational Science, Compilers, Game Theory, Probability & Statistics II, Distributed Systems

Leadership

SB Hacks // Development & Sponsorship Coordinator

- Designed and coded "SB Hacks 5" website to reach **5,000+** visitors.
- Sourced and onboarded sponsors for "SB Hacks 5" including but not limited to **Google, Bloomberg, SpaceX, and Firebase**.

Ravaani Acapella // Media and Music Director, Beatboxer and Bass

- Wrote vocal and percussive arrangements for local and competition performance.
- Scripted, directed, and filmed music videos for promotions and pre-performance introduction

UCSB Ultimate Frisbee // Captain

- Worked with a competitive ultimate frisbee team of 20 players in national and regional competitions
- Oversaw conditioning and gym performance throughout the academic year