Alex Funk

alexfunk1222@gmail.com
SF Bay Area / Santa Barbara

Employment History

Recurrent Neural Networks and Deep Learning Intern
2017/06 - 2017/09

Roche Sequencing Solutions

- Utilized **Google Cloud Platform**'s **AI Platform, TensorFlow, Keras and Python** to train **CNNs**, **RNNs** and other models.
- Added **MatPlotLib/Pandas** functionality to generate data visualizations of the analyzed results.
- **My end-to-end machine learning workflow for algorithm training, evaluation and analysis became the standard** that newhires were oriented.

Exploratory Data Analysis and Algorithm Development Intern
2016/01 - 2016/12

Roche Sequencing Solutions

- Did **rigorous hyperparameter tuning of CNNs, RNNs etc.** for Roche's groundbreaking **nanopore-based DNA sequencer**, aggregated and **analyzed the results**.
- Implemented **Natural Language Processing , Laplacian Mixture Models** and other **supervised/unsupervised methods.**
- Used **Google Cloud Platform to run many base-calling experiments in parallel** to **greatly increase efficiency - presented at Scrum meetings**.

Google Student Innovator
2018/07 - 2019/06

Vaco

- **Google's representative for Google Cloud Platform at UCSB.**
- Worked closely faculty and students **incorporating Google Cloud Platform into the Computer Science curriculum with success** in undergraduate courses.

Associates Students Engineering Senator
2018/06 - 2019/06

UCSB Associated Students

- **Elected to manage a $14 million budget** to appropriate funding for student-run organizations on campus and off.
- **Provided oversight** for the **Coastal Fund**, **Public and Mental Health Commission**, **UCSB Administration's IT Accessibility** task force and **Engineering Student Council**

Machine Learning Intern
2018/06 - 2018/09

Equinix

- **Utilized Google Cloud Platform**'s **BigQuery and AI Platform, Tableau, Python, MySQL** and various data analytics tools to **predict future resourcing for SLA Compliance**

Bioinformatics Intern

2015/06 - 2015/12

Lifecode Inc.

- **Analyzed tumor runs for cancerous mutations** in IGV (Interactive Genomics Viewer)
- Refined the **Java** written **algorithm** for **autonomously identifying cancerous mutations** within a patient's genome
- Wrote many **Bash scripts to increase efficiency for the team**

Education

University of California, Santa Barbara

Graduating - 2021/09

Computer Science BS, Philosophy Minor, Technology Management Certificate

Santa Barbara, California

- College of Engineering Dean's Honors
- New Venture Competition