

### **Education**

BS, Computer Science | University of California, Santa Barbara | GPA: 3.7

Expected Grad June 2024

- Undergraduate Coursework: Data Structures, Algorithms, Computer Networking, Machine Learning, Programming Languages
- Graduate Coursework: Scalable Internet Services

# **Experience**

### Software Engineer Intern - AppLovin

*June 2022 – September 2022* 

Infrastructure Team: Apache Spark, Apache Airflow, GCP, Jenkins

- · Contributed to the design and implementation of an Apache Spark ETL pipeline in Scala to automate the flow of financial data
- Interfaced with Google Cloud Platform (GCP) through Airflow DAGs to manage clusters and run Spark jobs using Dataproc
- Automated Spark executor log manipulation using the GCP CLI to concatenate and store them in a human readable format
- Improved the Slack webhook error notification process by analyzing log files from Google Cloud Storage buckets

### Software Engineer - Sei Labs

February 2022 – November 2022

Engineering Team: Rust, Golang, Node.js, React.js

- Designed and developed a decentralized finance (DeFi) protocol that targeted yield optimization of liquidity providers
- Oversaw the Initial Dex Offering (IDO) which generated over \$100 million of governance voting power
- Implemented smart contracts for additional DeFi protocols to handle the trading of perpetual futures and options
- Developed open-source bindings and helpers to support smart contract querying and messaging to the blockchain modules

### Software Engineer Intern - AppLovin

June 2021 – September 2021

Infrastructure Team: Java, Maven, JUnit, MySQL, Jenkins

- Introduced test-driven development to data aggregation projects to identify regressions when interfacing with third-parties APIs
- Set up continuous integration with Jenkins to automatically build, test, and manage Maven artifacts
- Designed and implemented a standardized testing framework to write unit, integration, and regression tests for a third-party data collection service which increased code coverage from 14% to 88%

## Research

#### **Undergraduate Researcher – UCSB NLP Group**

September 2021 – Present

ERSP 2021-2022 Cohort: PyTorch, Ruby on Rails, PostgreSQL, MTurk

- Researched topics in natural language processing (NLP) with a focus in Question Answering (QA) advised by Dr. William Wang
- Developed a large-scale, challenging QA benchmark dataset of QA pairs relating to causality
- Designed a pipeline for collecting and validating data through Amazon's Mechanical Turk (MTurk)
- Utilized state of the art models including BERT and GPT-3 to perform benchmarks to verify the difficulty of the collected data
- Chang, Ho, Sharma et al. WikiWhy: Answering and Explaining Cause-and-Effect Questions (in review for ICLR 2023)

#### **Open Source**

Grangel In Progress

Spark, Spark SQL, PostgreSQL

Designed and implemented Spark jobs to clean and analyze a dataset of grade distributions across different courses at UCSB

Wibble August 2021

Elixir, Phoenix, React. is, PostgreSQL

Created a platform for tracking job applications progress used by over 200 students and tracked around 3,700 applications

Monopl.io January 2021

Ruby on Rails, React.js, GraphQL, PostgreSQL

- Designed a remake of the Monopoly board game with the intention of offering the option to add custom rules and features
- Utilized polymorphic associations from Active Record in a relational database to distinguish different game tiles
- Updated the client-side game state in real time using WebSockets and GraphQL Subscriptions

## **Skills**

- Frameworks/Tools: Airflow, Spark, Docker, Maven, Jenkins, Git, React.js, Cypress, Ruby on Rails, Django, Express.js, Phoenix
- Languages: Java, Python, JavaScript, Rust, Scala, Ruby, Elixir, C++, HTML, CSS