Lawrence Lin

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EDUCATION

University of San Francisco   San Francisco, CA
M.S. Data Science   *July 2021 - August 2022 (Expected)*

University of California, Santa Barbara   Santa Barbara, CA
B.S. Statistics   *August 2017 - June 2021*

Courses: Advanced Machine Learning, Bayesian Statistics, Distributed Computing, Time Series, Stochastic Processes

EXPERIENCE

Data Science Intern   November 2021 - Present
Walmart Labs   *Sunnyvale, CA*
- Analyzed customers' seasonal purchase behavior for festivals using Apache Spark and Seaborn
- Worked on feature engineering and data cleaning using Apache Spark
- Developed a Sequential Recommendation Neural Network Model in TensorFlow and deployed on Google Dataproc

Research Assistant   January 2021 - June 2021
Sansum Diabetes Research Institute   *Santa Barbara, CA*
- Geographically visualized diabetes severity by zip code using Folium
- Modeled HbA1c with regression models achieving an R^2 of 0.77
- Authored and presented weekly written reports of insights to SDRI researchers

Gretler Fellow   September 2019 - June 2020
University of California, Santa Barbara   *Santa Barbara, CA*
- Explored methods to generate video game dungeons based off of *The Legend of Zelda*
- Developed a game in Java to test the generated dungeons
- Contributed 50K+ lines of code to an established codebase via Git
- Conducted a human subject study to determine which video game dungeon generation technique is enjoyable
- Wrote an 8-page paper and gave multiple presentations on-campus
- Presented virtually to the World Conference on Computational Intelligence

PROJECTS

Gitlytics | *Python, Flask, React, PostgreSQL, Docker*   June 2020 – Present
- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

Simple Paintball | *Spigot API, Java, Maven, TravisCI, Git*   May 2018 – May 2020
- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

TECHNICAL SKILLS

Languages: Python, R, C++, SQL (Postgres), NoSQL (Mongo) HTML/CSS, Bash
Frameworks: Hadoop Ecosystem (HDFS, YARN, Spark, SparkMLib, HiveQL) TensorFlow, PyTorch, Scikit-Learn, Statsmodels, Scipy, Numpy, Pandas, Matplotlib, Seaborn, Flask, BeautifulSoup, Selenium
Developer Tools: Git, Docker, Google Cloud Platform, Amazon Web Services, MongoDB