

Brian Lim

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EDUCATION

M.S. Computer Science – University of California, Santa Barbara (UCSB) Sep 2019 – Jun 2021

- Researching ecological inference using time series aggregate data with the Scalable Machine Learning Research Group
- Coursework: SAT Solvers in Program Analysis/Synthesis, Deep Learning for Natural Language Processing, Cloud Computing, Online Convex Optimization

B.S. Computer Science – University of California, Santa Barbara (UCSB) Sep 2016 – Jun 2020

- Minor: Probability and Statistics
- Relevant Completed Coursework: Intro to Computer Vision, Data Structures and Algorithms, Machine Learning, Database Design, Parallel Scientific Computing, Capstone

WORK EXPERIENCE

University of California, Santa Barbara – Teaching Assistant Apr 2020 – Present

- Taught: Intro to Data Science, Intro to C++
- Manage 10 industry-backed student-led projects as part of UCSB's Computer Science Capstone

Muncaster Consulting, Santa Barbara – SDE Jul 2018 – May 2019, Jun 2020- Sep 2020

- Built and automated end-to-end complete integration tests for FLIR's image processing SDK
- Automated optimization of application parameters using a grid search method, creating after-hours productivity
- Created Docker build process of Visdata, a tool for managing image bounding box annotations

Workday, Pleasanton, CA – Software Development Tools Intern Jun 2019 – Sep 2019

- Deprecated legacy code for report data ingestion by creating replacement in Golang
- Created a configurable XML parser to convert HTTP responses to parquet files
- Improved on legacy code by allowing configurations to be generalized to most scenarios, and added functionality to validate amount of data expected to be ingested

ACTIVITIES/ GROUPS

Data Science @ UCSB – President Jun 2018 – Present

- Manage officer team to ensure smooth operation of the club across departments
- Connected the club to dozens of companies by starting a corporate outreach team
- Improved retention of new members by 100%

PROJECTS

Interlinked – <https://github.com/BLimmie/Interlinked> Sep 2019 – Mar 2020

- Worked with Intouch Health (now Teladoc) to create a web application that could connect mental health patients and doctors for telehealth appointments
- Built a backend multithreaded application in Golang to serve machine learning API results to doctors so they can monitor a patient's recent emotions and sentiment in a real-time visualization
- Stored real-time results in MongoDB to provide doctors with more a detailed summary of the history of a patient's appointments so that they can track patient's progress

Eyewire Validation – https://github.com/BLimmie/eyewire_validator Aug 2018 – Apr 2019

- Built a deep learning algorithm to approximate Eyewire's annotation aggregation
- Used a recurrent U-net to learn segmentation of 3D images and uncertainty of prediction
- This algorithm can potentially save 50% of the time used to annotate data, removing several layers of validation in their algorithm

YangBot – <https://github.com/UCSBDiscord/YangBot> Dec 2017 – Present

- Created a general Discord bot in Python for the UCSB Discord Server that interacts with users. Detects toxicity and threat in messages, and acts as the middleman in user-moderator interactions.
- Saved moderation team dozens of moderation hours each week

SKILLS

Proficient: Java, C++, Python, Golang, Git, PyTorch

Has experience: Javascript, Node.js, R, Tensorflow, SQL, C, Scala, Spark, Docker