

# Brian Lim

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## EDUCATION

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

- Combined 5 year BS/MS program
- Researching exposing bias and uncertainty in deep learning algorithms
- 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
- Current Cumulative GPA: 3.8
- Relevant Completed Coursework: Intro to Computer Vision, Data Structures and Algorithms, Machine Learning, Database Design, Parallel Scientific Computing, Capstone

## WORK EXPERIENCE

**Muncaster Consulting**, Santa Barbara – Software Engineer 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](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