

# Brian Lim

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## WORK EXPERIENCE

**Amazon, Project Kuiper** – Software Development Engineer Oct 2021 – Present

- Improved Ground Antenna Manager to be used on multiple antenna hardware platforms

**University of California, Santa Barbara** – Teaching Assistant Apr 2020 – Jun 2021

- Taught: Intro to Data Science, Intro to C++, Scientific Computing
- Managed 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 computer vision 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

## EDUCATION

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

- Researching ecological inference using time series aggregate data with the Scalable Machine Learning Research Group
- Research focus: Ecological inference for COVID-19 time series data
- Coursework: Deep Learning for Natural Language Processing, Cloud Computing, Online Convex Optimization, AR/VR, Graph Machine Learning, ODE Solvers

**B.S. Computer Science – University of California, Santa Barbara (UCSB)** Mar 2020

- Minor: Probability and Statistics

## ACTIVITIES/ GROUPS

**Data Science @ UCSB** – President Jun 2018 – Jun 2021

- 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 300%

## PROJECTS

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

- Created a general Discord bot in Python for the UCSB Discord Server that interacts with users. Detects toxicity in messages, and acts as the middleman in user-moderator interactions.
- Helps students stay organized with school schedules

**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
- 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

## SKILLS

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

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