

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

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: Advanced Applications Programming, Intro to Computer Vision, Data Structures and Algorithms, Machine Learning, Regression Analysis, Finite State Automata, Database Design, Parallel Scientific Computing

WORK EXPERIENCE

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

- Performance Tools and Capacity Team
- 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

Muncaster Consulting, FLIR, Santa Barbara – Software Development Intern Jul 2018 – May 2019

- Built and automated end-to-end complete integration tests for FLIR's image processing SDK
- Built system for patching configuration updates quickly for demoing the application at conferences
- Automated optimization of application parameters using a grid search method, creating after-hours productivity
- Refactored codebase to use object oriented design

Natural Language Processing Group, UCSB Oct 2017 – Jun 2019

- Researched the validity of using emojis as a conversation health metric for automated data annotation
- Researched machine reading comprehension for questions without answers in text using Google's BERT model for long text classification and the effectiveness of BERT on long text
- Tested bidirectional recurrent models for video highlighting based on human-annotated importance values of individual frames

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

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

Intermediate: Javascript, Node.js, R, Tensorflow, SQL, C, Scala, Spark

Beginner: Ruby, Rails