

Matt Gottlieb

SOFTWARE ENGINEER · COMPUTER SCIENCE B.S.

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Education

University of California, Santa Barbara

Santa Barbara, CA

B.S. IN COMPUTER SCIENCE

Class of 2020

- Relevant Courses: Advanced App Programming (CS56), Mobile Application Development (CS184), Introduction to Computational Science (CS111), Data Structures and Algorithms I & II (CS130A/CS130B), Computer Communication Networks (CS176A), Human-Computer Interaction (CS185), Operating Systems (CS170), Fundamentals of Database Systems (CS174A), Artificial Intelligence & Machine Learning (CS165A/B).

Experience

Happy Cows

Santa Barbara, CA

LEAD SOFTWARE ENGINEER | [GITHUB.COM/MGLA96/HAPPYCOWS](https://github.com/MGLA96/HAPPYCOWS)

Jan. 2020 - Apr. 2020

- Implemented a multiplayer simulation game web application which is used in Chem 123 classes for Professor de Vries at UC Santa Barbara as an interactive learning tool for his students. This application uses Node.js for the backend with the assistance of the Express.js framework to handle routing and middleware, MySQL for the database, and Embedded Javascript for the Front-end.

Ocean Recoveries Lab

Santa Barbara, CA

SOFTWARE ENGINEER | [GITHUB.COM/MGLA96/OCEANRECOVERYLABSCRIPTS](https://github.com/MGLA96/OCEANRECOVERYLABSCRIPTS)

Jan. 2020 - Mar. 2020

- Created Python scripts to assist researchers at the Ocean Recoveries Lab at UC Santa Barbara. These scripts are used with Metashape to automate the process of converting datasets of photos researchers have taken of coral into accurately scaled 3D models in order to quantifiably measure the growth or deterioration of coral reefs.

Twitter Coffee Machine

Oak Park, CA

HARDWARE & SOFTWARE | [GITHUB.COM/MGLA96/COFFEE MACHINE IOT](https://github.com/MGLA96/COFFEE MACHINE IOT)

Aug. 2020 - Sep. 2020

- Built an automatic coffee machine that is controlled by a Raspberry Pi. It features a Twitter voting system where people can vote on which type of coffee it will brew for me next using hashtags. When it is activated through a Siri Voice command it gathers the votes made on Twitter from the past 24 hours and makes coffee with the winning choice bean.

Gomoku AI

Santa Barbara, CA

ARTIFICIAL INTELLIGENCE | [GITHUB.COM/MGLA96/GOMOKUAI](https://github.com/MGLA96/GOMOKUAI)

Jun. 2020 - Jun. 2020

- Developed an AI in Python to play Gomoku. This AI uses the Minimax algorithm and a custom point evaluation system to determine the best move. It incorporates Alpha-Beta Pruning and an optimized method of searching in order to reduce computation time.

Fitness Equipment Scraper

Oak Park, CA

WEB APPLICATION | [GITHUB.COM/MGLA96/GYMEQUIPMENTFINDER](https://github.com/MGLA96/GYMEQUIPMENTFINDER)

Jul. 2020 - Jul. 2020

- Constructed a Python Flask web application hosted on Heroku that utilizes cron jobs to scrape equipment information with BeautifulSoup from popular fitness websites and store them in a Postgres database. Due to COVID-19, fitness equipment is hard to find, so this application displays all available equipment in one place to save people time in their search.

Author Predictor

Santa Barbara, CA

MACHINE LEARNING | [GITHUB.COM/MGLA96/AUTHORPREDICTOR](https://github.com/MGLA96/AUTHORPREDICTOR)

May. 2020 - May. 2020

- Assembled a Machine learning Multinomial Naive Bayes Multiclass classification model with a bag-of-words text representation to predict the author of an anonymous article. Used lemmetization, bigrams, and trigrams as methods to improve accuracy.

LocNes

Santa Barbara, CA

WEB DEVELOPER

Mar. 2019 - Oct. 2019

- Designed and developed the website and e-commerce platform for a startup called LocNes. This website was written in HTML, CSS, and JavaScript and incorporates the Shopify API.

Walter Reed National Military Medical Center

Bethesda, MD

HARDWARE ENGINEER INTERN

Jul. 2018 - Aug. 2018

- Interned at Walter Reed's state-of-the-art 3D Printing facility designing and printing devices for medical applications. I also built my own custom 3D printer prior to this internship.

First-Person-View Quadcopter

Oak Park, CA

HARDWARE & FIRMWARE

Oct. 2018 - Dec. 2018

- Built a quadcopter that is controlled with a first-person-view real time video feed to better understand how all the hardware components such as the electronic speed controllers, PDB, radio and video receivers/transmitters, brushless DC motors, and gyroscope interact with firmware placed on the flight controller.