

MATTHEW GOTTLIEB

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EDUCATION

University of California, Santa Barbara

Class of 2020

- Major: Computer Science, B.S
- Relevant Courses: Intro to Computer Science (CS8), Problem Solving I (CS16), Problem Solving II (CS24), Object Oriented Design (CS32), Foundations of Computer Science (CS40), Advanced App Programming (CS56), Computer Organization (CS64), Application Project (CS48), Automata and Formal Languages (CS138), Mobile Application Development (CS184), Computer Architecture (CS154), Introduction to Computational Science (CS111), Data Structures and Algorithms I (CS130A), Data Structures and Algorithms II (CS130B), Introduction to Computer Communication Networks (CS 176A), Human-Computer Interaction (CS185), Operating Systems(CS170), Fundamentals of Database Systems (CS174A), Program Languages(CS162), Projects in Computer Science(CS192)

EXPERIENCE

Tragedy of Commons Multiplayer Simulation Game

Santa Barbara, CA

Back-End Software Engineer

Jan 2020 – Mar 2020

- Implementing a multiplayer simulation game for Professor de Vries which demonstrates the detrimental effects of unregulated human use of shared finite resources. This game is used in his CHEM 123 classes at UC Santa Barbara as an interactive learning tool for his students.
- *Software: MySQL, Sequelize, Express.js, Node.js, MVC API*

Ocean Recoveries Lab

Santa Barbara, CA

Software Engineer

Jan 2020 – Mar 2020

- Creating scripts to assist researchers at the Ocean Recoveries Lab at UC Santa Barbara, which focuses on preserving and recovering ocean ecosystems. These scripts help with the mathematical modeling of their collected data.
- *Software: Python*

LocNes

Santa Barbara, CA

Web Developer

Mar 2019 – Jan 2020

- Designed and developed the website and ecommerce platform for a startup called LocNes.
- *Software: HTML, CSS, JavaScript, Bootstrap, Shopify API*

Walter Reed National Military Medical Center

Besthesda, MD

Hardware Engineering Intern

Oct 2018 – Nov 2018

- Gained hands on experience working in their state-of-the-art 3D Printing facility, which focuses on creating devices for medical applications such as prosthetics.
- Produced multiple medical devices, which are still currently being used to assist Doctors there.

PROJECTS

Bank Database and ATM Interface

Santa Barbara, CA

Android Application

Nov 2019 – Dec 2019

- Assembled a prototype account management system that maintains balance information of all customer accounts, processes transactions, generates monthly reports, and updates accounts with monthly interest. It features a simulated ATM application for customers and an interface for Bank employees.
- *Software: Java, Java Database Connectivity API, SQL, Oracle DBMS,*

College Ride Share App

Santa Barbara, CA

Cross-Platform Application

Nov 2018 – Dec 2018

- Developed a functional cross-platform Rideshare app for college students with two other Computer Science students.
- *Software: XCode, React Native, Firestore, Google Maps API*