

# Nate Browne

SOFTWARE ENGINEER, PL AND COMPUTER SECURITY ENTHUSIAST

San Francisco, California

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## Education

### University of California, San Diego

La Jolla, CA

B.S. IN COMPUTER SCIENCE AND COGNITIVE SCIENCE, GPA 3.1

June 2020

- Resident Assistant for two years in Warren College
- Founder of Late Night Hacks, a computer security club and CTF team

## Skills

**PLs** Python, C, C++, Java, Haskell,  $\text{\LaTeX}$ , ARM Assembly, x86, OCaml

**Languages** English, Spanish

## Experience

### SurveyMonkey

San Mateo, California

SOFTWARE ENGINEER

Aug. 2020 - Present

- Software engineer on the billing and payments development team

### UCSD CSE Department

La Jolla, CA

TUTOR

Jan. 2018 - Jun. 2020

- Undergraduate TA for CSE 11 (Intro to Object-Oriented Programming), CSE 12 (Basic Data Structures), CSE 15L (Software Tools and Techniques), and CSE 30 (Computer Organization/Systems Programming) with Gary Gillespie and Rick Ord.
- Created and proctored exams; graded assignments, quizzes, and exams; and held tutoring hours
- Languages used: C, C++, Java, ARM Assembly, BASH scripting

### SurveyMonkey, Inc.

San Mateo, CA

SOFTWARE ENGINEER INTERN

Jun. 2019 - Aug. 2019

- Worked on the billing and payments development team and used Python and Java to build out a new backend framework for storing credit card data into a different secure database and migrating data from one to the other.

### ServiceNow, Inc.

La Jolla, CA

SOFTWARE ENGINEER INTERN

Jun. 2018 - Aug. 2018

- Worked on the core platform development team and used Java to write integration tests and a software benchmarking tool.
- Worked with teammates to triage and fix reported platform bugs.

## Projects

### RENT

On Github

PYTHON, REACT NATIVE, FLASK, MARIADB

May 2018

- Worked with a team of 10 on a quarter long software engineering project in which we built a mobile app to help roommates manage their rental.
- I helped to architect the app, which included choosing the frameworks, setting up the repository, writing and implementing the DB schema, and working on the backend Flask app that the React Native app used as an API.

### Autograder Web Developer

La Jolla, CA

FLASK, PYTHON, POSTGRESQL, DOCKER

Apr. 2018 - Jun. 2020

- I'm a lead developer on the Autograder team (autograder.ucsd.edu), a service used by 2,000+ UCSD CS students and professors to facilitate student-tutor queues and automated homework grading.
- I helped lead a redesign and rewrite of the codebase to migrate it to more modern technologies and make it easier to maintain.

### CSE 12 Redesign

On GitHub

C++

Jul. 2019

- I wanted to try out the life of a professor, so I made a website, wrote assignments, and wrote lecture notes for a revised version of the "Basic Data Structures" class at UCSD