

Nate Browne

SOFTWARE ENGINEER, COMPUTER SECURITY ENTHUSIAST

San Francisco, California

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Education

University of California, San Diego

La Jolla, CA

B.S. IN COMPUTER SCIENCE

June 2020

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

Skills

Programming Languages Python, C, C++, Java, Haskell, \LaTeX , ARM Assembly, x86, OCaml

Spoken Languages English, Spanish

Experience

Momentive, Inc.

San Mateo, California

SOFTWARE ENGINEER

Aug. 2020 - Present

- Software engineer on the billing and payments development team
- Helped maintain and modernize the automatic billing system as the service owner for the system
- Led a project to migrate vendors for billing emails, saving operating costs for the company
- Built out an invoice auth page to prevent users from seeing invoices that don't belong to them, preventing over 50,000 unauthorized invoice views.

UCSD CSE Department

La Jolla, CA

LEAD UNDERGRADUATE TA

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

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 @nate-browne

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.
- Acted as the main architect and backend techlead by designing APIs, writing the DB schema, and building the infrastructure to deploy to AWS

NotARook-ie

On Github @nate-browne

C

- Wrote a fully functional chess engine in C that is rated about 2500 ELO
- Engine uses alpha-beta pruning and negamax, with other optimizations, to find and play the best moves. Can communicate both with xboard and UCI protocol.

CSE 12 Redesign

On GitHub @nate-browne

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
- Course progresses through basic to intermediate data structures while having students implement the C++ STL versions by hand