

AMIR ASSAD

San Diego, CA

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EDUCATION

Bachelor of Science, Computer Science, UC San Diego (June 2018)

EXPERIENCE

ServiceNow, San Diego — Software Engineer Intern (Web APIs)

June 2017 – PRESENT

- Implement an internal feature restricting access to **REST Endpoints** using **ACLs**
 - Implement a custom memory & time efficient **hashmap** to reduce **GraphQL** schema memory footprint
 - Map yielded **97%** fill factor with at most 5 lookups for any key
 - Reduced memory footprint by **~67%**
 - Followed **agile** development pattern, **scrum**, & used effective coding practices (**TDD, XP**)
 - Acquired skills in **web services**, **platform security**, **PaaS**, **SaaS**, and **cloud computing**
 - Tools used: **Java 8, PowerMock, Mockito, Yourkit, IntelliJ IDEA**
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PAGrader, UCSD — Full Stack Web Developer (Technical Lead)

September 2017 – PRESENT

- Website designed to help tutors grade programming assignments
 - Refactor backend code to use ECMAScript 6/7 features
 - Lead team in designing/implementing a feature to grade assignments doing file I/O through the platform
 - Tools used: **npm, Node.js, Express, React, Redux, Enzyme, Chai, MongoDB, IntelliJ IDEA**
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Autograder, UCSD — Full Stack Web Developer — autograder.ucsd.edu

January 2016 – September 2017

- Used by 3000+ CS students & professors to help facilitate student-tutor queues and automate homework grading
 - Create **Java client** to communicate with MOSS (Measure of Software Similarity) & prep files from multiple quarters
 - Design a **user-friendly** interface replacing old bash scripts & improve time to complete a MOSS job by **~50%**
 - Implement email notification for students being added to groups for working on the same project
 - Implement feature to display student & tutor review statistics on personal accounts
 - Tools used: **Java, JavaScript, Play Framework, IntelliJ IDEA**
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UCSD CSE Department, San Diego — Tutor

January 2016 – September 2017

- Tutor for **Data-structures & OOD, Intro to Java Programming, Unix Lab, & Software Engineering**
 - Analyzed and debugged students' code, and clarified concepts they are working on in (**Java, C, C++**)
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PROJECTS

Art Collection — Personal **Website** for an artist — desolate-wildwood-13751.herokuapp.com

May 2017 – PRESENT

- Custom web application for an artist to display & sell personal art work
 - Design the frontend and backend using React and Express.js
 - Tools used: **npm, Node.js, Express, React, Redux, Enzyme, Chai, MongoDB, IntelliJ IDEA**
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TECHNICAL QUALIFICATIONS

- Languages: **C++, C, Java, Python, JavaScript**
- Tools & Frameworks: **Express.js, Node.js, npm, React, MongoDB, Play Framework, Yourkit, PowerMock, Enzyme, Chai, git, IntelliJ IDEA**