Chengzhu Duan

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[GITHUB](#) | [LINKEDIN](#) | [PORTFOLIO](#)

Skills

- **Proficient Languages** — Java, C/C++, Javascript, Python, HTML/CSS, ARM assembly
- **Frameworks and Libraries** — Node.js, Handlebars.js, Gulp.js, Discord.js, jQuery, Numpy, Selenium
- **Databases** — MySQL, MongoDB
- **Tools** — Unix/Linux, Git, Agile Methodology, Microsoft Office

Education

University of California San Diego   *Expected Graduation: June 2021*

- B.S. in Computer Science
- Provost Honor
- Cumulative GPA: 3.89/4.0
- Relevant Courses: Basic & Advanced Data Structure, Software Tools & Lab Techniques, Computer Organization and System programming, Mathematics for Algorithms and Systems, Deep Learning & Natural Language

Professional Experience

Yi Yun Information Technology Corporation   *Software Tester Intern, June 2018 - August 2018*

- Conducted automated and manual tests on functionalities of the frontend and the backend of an e-commerce web application that has more than 10000 users
- Learned and used testing framework Selenium to speed up the testing process
- Followed practice of parallel testing and atomic testing with flexible and efficient usage of locators

Technical Experience

UCSD Early Scholars Research Program   *Undergraduate Researcher, September 2018 – Present*

- Selected from hundreds of applicants as one of 50 undergraduates with early access to computer science research
- Proposed an engagement predicators that classifies how likely and unlikely users play the games they purchased from Steam
- Collected and scrapped data from the Steam distribution platform and organized them in json format
- Currently working on a proof of concept implementation of logistic regression training model

Triton Software Engineering   *Project Developer, March 2018 – Present*

- Worked with a group of 3 other developers under agile development
- Created a socializing webpage that helps people to connect and build teams for projects and upcoming hackathons
- Constructed the backend server with Mongoose, Node.js, and Express for application, API, and database integration
- Designed a simple interactive frontend webpage with Bootstrap and Handlebars.js

Projects

Swag-Bot

- Developed an discord bot with Discord.js for my discord server
- Used MySQL and MongoDB to establish an experience point and coin system for my discord server
- Consisted of 75 commands capable of manipulating texts and images, fetching data, searching information, and playing music through RESTful API calls

c3duan.github.io

- Built with jQuery for responsiveness and user interactions
- Incorporated CSS and SCSS for loading animation, sliding effects, and timeline layout
- Utilized gulp.js to autogenerate minimized file version for faster page loading time

Spam Email Detector

- An user interactive program inspired by Bloom Filtering
- Implemented 3 separate-chaining hashtables in C and ARM assembly to guarantee identification of a spam email
- Involved large-scale dynamic memory allocation and complex file I/O