

Thomas Garry

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Education

University of California San Diego

9500 Gilman Dr, La Jolla, CA

B.S. IN COMPUTER SCIENCE | 3.7 GPA

Sep 2019 - Dec 2022

- Relevant Coursework: Software Tools/Techniques Laboratory, Computer Organization/Systems Programming, Software Engineering

Employment

Incoming Capital One Intern Software Engineer

Jun 2022 - Aug 2022

Teradata

Online

INTERN WEB DEVELOPER

Jun 2021 - Sep 2021

- Worked on user interface written in **TypeScript** and **Angular** to create data visualizations with **D3** in accordance with a **Golang** web-service
- Automated testing of the UI with **Cypress** by mocking end-to-end user interaction and stubbed network calls to test within project pipeline

UC San Diego Computer Science and Engineering Department

Online

TUTOR

Mar 2021 - Mar 2022

- Tutored 300+ students for Basic Data Structures, Software Tools Techniques and Advanced Data Structures
- Taught concepts such as **linked lists**, **stacks**, **binary search trees**, **queues**, **Linux CLI** and **Bash scripting** in lab hours, graded work

SPIS SUMMER MENTOR

Aug 2020 - Sep 2020

- Mentored four incoming students with their programming projects and held lab hours to help them adjust to **Python** and college life
- Evaluated and provided project performance feedback, facilitated social engagement, and assisted in lecture provided by CSE professors

Activities

Autograder Software Engineer

La Jolla, CA

AUTOGRADER TEAM @ UCSD

Nov 2021 - PRESENT

- Transitioning team to work on the autograder ticket queue system allowing for students to obtain tutor help from various courses at UCSD
- Running tests for the backend written in **Flask**, **MySQL**, and **SQLAlchemy** and converting timed post requests to use server-side events

TSE Developer

La Jolla, CA

TRITON SOFTWARE ENGINEERING @ UCSD

Nov 2020 - Nov 2021

- Collaborated in teams providing pro-bono technical and web development services for nonprofit organizations
- Built backend for a San Diegan Buddhist nonprofit organization, using **Node.js**, **MySQL**, and **Sequelize**
- Refactored the website for the United Women of East Africa, rewriting parts of the backend written in **Mongo**, **Express**, and **Node.js**

ACM Staff & Hack Member

La Jolla, CA

ACM BOARD @ UCSD

Aug 2019 - May 2021

- Engaged in meetings for the development of workshops empowering students to create projects and learn about software engineering
- Technical Event Lead - produced and lectured workshops for **JavaScript**, **Python**, **Node.js**, and **Dart** for the 2020-2021 school year
- Attended workshops and social events striving to develop a sense of community among students learning software engineering

Projects

ACM Quiztime

Online

BACK-END DEVELOPER

Jul 2020 - Oct 2020

- Developed a MongoDB framework to hold quiz questions using references to reduce repetition of questions and save space
- Co-authored gameplay creation using **Socket.IO** to send player data and to have game room capabilities, deployed with GCP
- Operated in a back-end team of two using **Node.js**, **Express**, **Socket.IO**, **MongoDB** to provide quiz and gameplay functionality

Mission Vista High School Virtual Tour

Vista, CA

FULL STACK DEVELOPER

Mar 2019 - Mar 2020

- Implemented a virtual tour of the MVHS campus in website form to attract incoming freshmen to the school
- Constructed the backend for a system which implements teachers uploading pictures and videos about their classrooms in **Node.js**
- Demonstrated use of the website to VUSD school officials and was approved to showcase the program to the school
- Combined **Node.js**, **jQuery**, **HTML**, **CSS**, **MongoDB** with the **Unity** Game Engine Build for WebGL allowing for web gameplay

Skills

Frameworks Node.js, Express, MongoDB, Mongoose, Sequelize, Unity, p5.js, React.js, Angular

Languages Java, TypeScript, C, C#, HTML/SCSS, Python, Bash

Tools/Dev Git, Unix, GitHub, GDB, Valgrind, Makefile, JUnit, Cypress, Jest