Thomas Garry

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Education

University of California San Diego *La Jolla, CA*
B.S. in Computer Science | 3.73 GPA *Sep 2019 - Dec 2022*

Employment

Capital One *McLean, VA*
Software Engineer Intern *Jun 2022 - Aug 2022*
- Created functionality for an internal dashboard to use template variables with JQL (Jira Query Language) for a custom **Jira plugin**
- Allowed users to use variables to modify query visualizations without manually editing the query in the **Grafana UI** based frontend
- Processed and returned filtered columns using Jira API calls written in **Golang** for the plugin's backend calling **Grafana SDK** functions
- Developed test queries used to filter and store Jira column data into template variables and presented to internal dashboard customers

Teradata *Online*
Web Developer Intern *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*
Instructional Assistant *Mar 2021 - Mar 2022*
- Tutored 300+ students for the courses 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

Summer Program for Incoming Students Mentor *Aug 2020 - Sep 2020*
- Mentored four incoming students and held lab hours to teach programming concepts in **Python** and frameworks such as **Flask** and **pygame**
- Evaluated and provided project performance feedback, facilitated social engagement, and assisted in lecture provided by CSE professors

Projects

Autograder/Queues *Online*
Lead Full Stack Software Engineer *Nov 2021 - PRESENT*
- Leading **team of six** working on ticket queue system for helping students in UCSD CSE courses
- Running tests for the backend written in **Flask**, **MySQL**, and **SQLAlchemy** and converting timed post requests to use server-side events

ACM Quiztime *Online*
Back-end Developer *Jul 2020 - Oct 2020*
- Collaborated in team of six to create a live quiz game platform for more than 30 players at once for the ACM UCSD organization
- 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

Activities

TSE Developer *La Jolla, CA*
Triton Software Engineering @ UCSD *Nov 2020 - Nov 2021*
- Collaborated in team providing pro-bono technical and web development services for two nonprofit organizations
- Built backend for a San Diegan Buddhist organization with **5000+** monthly unique visitors 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*
Association for Computing Machinery Board @ UCSD *Aug 2019 - May 2021*
- Engaged in meetings for the development of workshops empowering students to create projects and learn about software engineering
- Produced and lectured workshops teaching **JavaScript**, **Python**, **Node.js**, and **Dart** for the 2020-2021 school year

Skills

Frameworks	Node.js, Express, MongoDB, Mongoose, Sequelize, 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
Certification	AWS Certified Solutions Architect - Associate