Sam Roquitte

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Education

Georgia Institute of Technology | Atlanta, GA   *GPA: 3.7/4.0 | August 2018 – May 2022*
Candidate for Bachelor of Science in Computer Science

- Relevant courses — Data Structures and Algorithms, Computer Organization and Programming, Systems and Networks, Intro to Artificial Intelligence, Design and Analysis of Algorithms, Linear Algebra, Discrete Math, Objects and Design
- Relevant in progress — Robotics & Perception, Digital Design Lab

Experience

Georgia Institute of Technology College of Computing | Atlanta, GA   *Fall 2019 - Present*
Head Teaching Assistant (CS2200: Systems and Networks) – Fall 2020
Teaching Assistant (CS2200: Systems and Networks) Fall 2019 – Spring 2020

- One of 14 Undergraduate Teaching Assistants
- Prepared material for and taught a weekly 50 student recitation along with another TA
- Taught students about multithreading, networking, and processor scheduling through C programming projects
- Helped students with projects and homework with 3-7 office hours per week
- Created test problems, homework, and projects for the course

Redfin (redfin.com) | Seattle, WA   *Summer 2020*
Software Development Intern – offer rescinded due to COVID-19 pandemic

eCIO (getecio.com) | Madison, WI   *Summer 2019*
Software Development Intern (React + Mobx)
Startup robo advisor for institutional investors.

- One of two developers charged with building a client facing investment portfolio management system (myecio.com)
- Designed a backend service to store client information, members, financial records, and sensitive organization documents
- Built superadmin pages to allow customer service employees to manage user accounts and organization information
- Created user profile and signup pages to streamline user onboarding process

Akitabox (akitabox.com) | Madison, WI   *Summer 2017 & 2018*
Software Development Intern (Angular)
SaaS startup providing cloud-based asset tracking, blueprint storage, and maintenance tools to building managers.

- Reduced bug fix turnaround time by adding server crash and error reporting to a Slack bot using AWS CodeDeploy SDK
- Improved consumer value by adding a new building statistics page that allows users to see rich data on the performance of their building and improve efficiency

Skills

Languages: Java, C, C++, Python, JavaScript, HTML, CSS, PHP, Arduino
Web Technologies: Node.js, React, Angular, Mobx, MongoDB, MySQL, Redis, Nginx, Apache2, REST APIs
Platforms & Networking: Linux (Ubuntu, Debian), DNS configuration, Domain & subdomain configuration, SSL certificates

Projects

Smart Queue (COVID-19 Global Hackathon 1.0)   *2020*

- Built a webapp that allows students to easily join queues to get help from teachers to assist with the move to online class
- Learned how to use websockets to update the queue on all clients at the same time (like google docs live update)
- Used native notifications to alert students when it is their turn and allow them to join videocall with a single click
- Created with Node.js, React, MaterialUI, HTML5 websockets and native notifications

HouseUP (HackGT Hackathon) – Winner: Wayfair Challenge   *2019*

- Built an app to help city planners decide where to build new low-income housing projects
- Interfaced with ESRI's ArcGIS platform to create powerful maps and analyze geographic trends
- Designed and built the front-end application using functional components in React
- Trained an image-based neural network on ESRI geographic data to help find the best location possible

Sandman   2015 – 2017

- Led a team of 5 developers to build an app using PHP and MySQL that allows for quick and easy collection of data
- 50 registered users and over 70,000 data points collected
- Wrote automated strategy guide tool to summarize data and highlight weak points in the opposing teams
- System is still in use and maintained by current members