Sam Roquitte

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Education

Georgia Institute of Technology | Atlanta, GA *GPA: 3.6/4.0 | August 2018 – May 2022*
Candidate for Bachelor of Science in Computer Science
- Relevant courses — Data Structures and Algorithms, Computer Organization and Programming, Linear Algebra, Discrete Math, Systems and Networks
- In progress — Intro to Artificial Intelligence, Design and Analysis of Algorithms, Objects and Design

Experience

Georgia Institute of Technology College of Computing | Atlanta, GA *Fall 2019*
CS2200: Systems and Networks Teaching Assistant
- Selected to be one of 14 Undergraduate Teaching Assistants
- Prepared material for and taught a weekly 60 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
- Assisted students in designing and creating pipelined processors in a simulation environment

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 the user onboard 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
Tools: Jira, Confluence, Agile development, Github & git CLI

Projects

Youtube Downloader *2019*
- Built a webapp that takes a video url, downloads it, and organizes it into the correct directory structure
- Used the Spotify API to get song metadata based on video title and set MP3 ID3 tags
- Created with mdbootstrap, Node.js, express, socket.io, and shell scripting

eL (MakeHarvard Hackathon) – Winner: Sunstone Circuits MAKE it Matter *2019*
- Built a smart lighting system for electric longboards that reacts to turning and braking
- Implemented a REST API in micropython for the esp8266 to control the system with an Android app
- Conducted market research to pitch the problem to judges and convince them of our solution

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

Leadership / Activities

Robojackets Outreach | Atlanta, GA *2018 – present*
Mentor, Event volunteer
- Mentored a high school team and taught them about robotics electronics
- Working with a dedicated group to create educational Youtube videos for new teams
- Responsible for all electronics and pneumatics videos in the curriculum
- Helped plan outreach events including "FTC Robot in One Weekend" to helps teams that don't have access to game pieces
- Volunteered at multiple FIRST Robotics Competition events