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

Teaching Assistant for CS2200: Systems and Networks (Fall 2019)

Experience

eCIO (getecio.com) | Madison, WI *Summer 2019*

Software Developer (React)

Startup robo advisor for institutional investors.

- Built out many large features including: user profile, organization service, superadmin user management pages
- These features helped eCIO market and onboard their first fee paying clients

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 working with another developer to add 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, 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, SolidWorks

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 to pass data between the esp8266 based hardware and an Android app

Animaid (MIT Reality Virtually Hackathon) *2019*

- Built an augmented reality app in Unity to allow creators to make storyboards much quicker
- Implemented a neural network to take in 2D sketches from multiple angles and convert them into 3D models by inferring missing details

Overherd (HackGT Hackathon) *2018*

- Worked in a team to build a location based social media app with Ionic, Node.js, Angular, and MongoDB
- Used Google maps API and geospatial MongoDB queries to tie data to the user's location

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 competition 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

Leadership / Activities

Robojackets Intelligent Ground Vehicle Competition Team | Atlanta, GA *2018 – present*

Software team (2018)

- Worked with a team to build a semantic segmentation CNN with pytorch to recognize barrels and lines on the course
- Running on an onboard custom-built computer and connected to the rest of the system using ROS (Python & C++)
- Allows the team to run the robot in multiple different environments and iterate on design much quicker

Robojackets Outreach | Atlanta, GA *2018 – present*

Mentor (2018), Event volunteer (2018)

- Mentored a high school team and taught them about robotics electronics
- Working with a dedicated group to create educational videos for new teams
- Volunteered at multiple FIRST Robotics Competition events