

# Sam Roquitte

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## Education

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### 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

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### Georgia Institute of Technology College of Computing | Atlanta, GA

Fall 2019, Spring 2020

CS2200: Systems and Networks Teaching Assistant

- Selected to be 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
- Assisted students in designing and creating pipelined processors in a simulation environment

### eCIO ([getecio.com](http://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](http://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](http://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

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**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

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### 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

### 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

## Leadership / Activities

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### Robojackets Outreach | Atlanta, GA

2018 – present

Mentor, Event volunteer

- 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 help teams that don't have access to game pieces
- Volunteered at multiple FIRST Robotics Competition events