

Sam Roquitte

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Objective

Talented student skilled in full stack web development and small electronics. Interested in both hardware and software opportunities.

Education

Georgia Institute of Technology | Atlanta, GA

August 2018 – Expected Graduation, May 2022

Candidate for Bachelor of Science in Computer Science

Courses in progress – Computer Organization and Programming, Linear Algebra

Middleton High School | Middleton, WI

GPA: 3.767/4.0 | May 2018

Dual enrolled at University of Wisconsin – Madison Programming II & III: OOP in Java, ADTs (List, Stack, Queue, Priority Queue/heap, BST, Graph, Graph traversal algorithms, hash table, sets), lambda functions, anonymous inner classes, testing, complexity analysis

Skills

Programming: Java, JavaScript, Node.js, HTML, CSS, PHP, SQL, Arduino, Python

Platforms: Linux (Ubuntu, Debian)

Hardware: Raspberry Pi, Arduino, Soldering (SMD & Through Hole)

Software: SolidWorks, GitHub & git CLI, Illustrator, Photoshop

Organizations: Robojackets, BadgerBOTS Robotics, Middleton High School Rocketry Club

Experience

Akitabox | Madison, WI

Summer 2017 & 2018

Software Development Intern

SAS startup providing cloud-based asset tracking, blueprint storage, and maintenance tools to building managers.

- Added server monitoring features to the Node.js based Slack bot using AWS SDK
- Fixed bugs and added features to the webapp

Projects

JavaScript / Node.js / MongoDB

- *Agendabot* is a Node.js based Slack bot that allows teams to easily record agenda items and have them automatically posted when the meeting starts (created for BadgerBOTS)
- *Server monitor* is an app that allows me to view the vitals of all of my servers from one place. Used Socket.js for live server updates and code running on each server to POST vitals when requested by the host server
- *Youtube Downloader* is an app that prompts the user to paste in a url of a video (that isn't copywritten) and then it gets the title of the video, pulls the metadata for the song using the Spotify API, downloads it, and sets the ID3 tags. The site uses material design elements as well as a fully responsive column layout using mdbbootstrap

Web Design

- Redesigned BadgerBOTS website, setup wordpress, and taught new members how to administrate - team1306.com
- Created a fully responsive website and set up hosting/email for Skylake Properties on a freelance basis - skylakeprop.com
- Completely redesigned Wingra Direct website to look more modern through a summer internship - wingradirect.com

PHP / SQL

- I led the scouting team for BadgerBOTS in 2016-17 and in that time, we developed an application called *Sandman*. When we went to competitions, we had people watch every match and collect data on the other teams. That data then went into one centralized database where we could generate, and print strategy guides for our matches
- *Part System* is a webapp that I developed for my robotics team. It allows our team to track our part inventory (so that we know where parts are and when we need to order more) and track robot subsystems through development

Leadership or Activities

BadgerBOTS FIRST Robotics Competition Team | Madison, WI

2013 – 2018

Co-President (2018), Head of Scouting & Programming (2016-17)

- Dean's list nominee – for excellence in leadership
- Team awards – Chairman's Award (2017, 2015), NASA Innovation Award (2016)
- Qualified and attended global competition in 2017, 2016, 2015

Middleton High School Rocket Club | Middleton, WI

2016 – 2018

Lead Payload Engineer

- Designed circuitry, soldered, and programmed multiple rocket monitoring/vital recording systems
- Built two muon detectors (0805 surface mount soldering)