

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: 3.8/4.0 | May 2018

Dual enrolled at University of Wisconsin – Madison Programming II & III: OOP in Java, ADTs, lambda functions, anonymous inner classes, testing, complexity analysis

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 bomb and error reporting to the Node.js based Slack bot using AWS SDK and hubot framework
- Fixed building switcher not showing archived buildings bug
- Pair programmed on adding recent building stats to the user dashboard
- Added organization to the new UI app header
- Fixed stats route data filter bug in backend

Projects

Agendabot

- Built a Node.js + Redis based Slack bot that allows my robotics team to easily record agenda items and have them automatically posted when the meetings start; also includes a web interface with agenda for presentation

Server Monitor

- Used Node.js, express, and socket.io to create an app that monitors vitals of my servers and displays them on a webpage

Youtube Downloader

- Built a website where I can paste in a video url (that isn't copywritten) and download it; also used the Spotify API to get song metadata from video title and set ID3 tags; used mdbootstrap for a modern and fully responsive design

BadgerBOTS Website

- Setup wordpress, and taught new members how to administrate and post - team1306.com

Skylake Properties

- Created a fully responsive HTML5 website with bootstrap and set up hosting/email on a freelance basis - skylakeprop.com

Wingra Direct

- Completely redesigned website to look more modern (using bootstrap) through a summer internship - wingradirect.com

Sandman

- Led a team of 5 developers to build a scouting application that allows our robotics team to quickly collect data on other teams and generate match strategy guides with the most up to date data; used PHP with MYSQL

Part System

- Built an inventory management system from scratch using PHP and MYSQL; allows my robotics team to proactively order parts and track robot subsystems through development; includes secure pages with OAUTH2 "Sign in with Slack"

Skills

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

Software: Node.js, MongoDB, MYSQL, Redis, Nginx, Apache2, Github & git CLI, SolidWorks

Platforms & Networking: Linux (Ubuntu, Debian), DNS configuration, Domain & subdomain configuration, SSL certificates

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

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

Leadership / Activities

BadgerBOTS FIRST Robotics Competition Team | Madison, WI

2013 – 2018

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

- 1 of 2 Dean's list nominees for excellence in leadership
- Team awards (qualified for global competition) — Chairman's Award (2017, 2015), NASA Innovation Award (2016)

Middleton High School Rocket Club | Middleton, WI

2016 – 2018

Lead Payload Engineer

- Designed circuitry, soldered, and programmed multiple Arduino based rocket monitoring/vital recording systems
- Worked with Spencer Axani, a Ph.D. student at MIT, to build small form factor muon detectors (0805 surface mount soldering)