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, Data structures & algorithms

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

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

Projects

Server Monitor *2018 – present*

- Developed an app that monitors server vitals and displays them on a webpage using Node.js, express, and socket.io

Youtube Downloader *2018 – present*

- Built a website that takes a non-copywritten video url and downloads it; uses the Spotify API to get song metadata based on video title and set mp3 ID3 tags; used mdbootstrap, Node.js, express, socket.io, and shell scripting

Agendabot *2017*

- Created a Slack bot that allows my robotics team to easily record agenda items and have them automatically posted when meetings start; used Node.js, Redis, and the Hubot framework

BadgerBOTS Website *2017*

- Setup wordpress site with 1,500 all-time pageviews – team1306.com

Sandman 2015-2017

- 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 2016-2017

- 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"

Wingra Direct *2016*

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

Skylake Properties *2014*

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

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)