Sam Roquitte

(608)-807-9363 | sam@roquitte.com | https://sam.roquitte.com

Education

Georgia Institute of Technology | Atlanta, GA *August 2018 – 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: Data Structures & Algorithms in Java

Experience

Akitabox | Madison, WI *Summer 2017 & 2018*
Software Development Intern
SaaS startup providing cloud-based asset tracking, blueprint storage, and maintenance tools to building managers.

- Added server crash and error reporting to a Node.js based Slack bot using AWS CodeDeploy SDK and hubot framework
- Solved an issue where the building switcher would not show archived buildings
- Pair programmed on adding a new building stats section to allow users to see rich data on the performance of their building

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

Projects

Youtube Downloader *2018 – present*

- Built a website 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

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

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 offer strategic tips and highlight weak points in the opposing teams
- Collaborated with other robotics teams to collect more data and build a more accurate prediction model

Part System 2016-2017

- Built an inventory management system from scratch using PHP and MySQL
- Allows robotics team to proactively order parts and track robot subsystems through development
- Includes secure pages with OAUTH2 "Sign in with Slack" to keep designs private from other competing teams
- CAD file management system allows design team to easily share files with fabrication team

Wingra Direct *2016*

- Completely redesigned website to look more modern through a summer internship - wingradirect.com
- Used bootstrap, full width images, and hover effects to make the site more appealing to potential vendors

Skylake Properties *2014*

- Created a fully responsive HTML5 website with bootstrap and set up hosting/email on a freelance basis - skylakeprop.com
- Used GTmetrix to decrease load times after first load by 40% and achieved an 83% PageSpeed score

Leadership / Activities

BadgerBOTS FIRST Robotics Competition Team | Madison, WI *2013 – 2018*
Co-President (2018), Head of Scouting & Programming (2016-17)

- Led meetings, planned team events, and managed budgets for a year-round competitive robotics team
- Implemented motion profiling with PiDF and bang-bang for 120 lb robots
- Used OpenCV on a vision co-processor to locate targets on the field and automatically calculate flywheel velocity, turret direction, and hood angle
- 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