ALEXANDER ELLIOTT

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EDUCATION

Georgia Institute of Technology, Atlanta, GA *August 2018 - Present*
Candidate for Master of Science in Computer Science (expected Dec. 2022)
Bachelor of Science in Computer Science (awarded Dec. 2021) GPA: 3.9 / 4.0

EXPERIENCE

Georgia Institute of Technology
Undergraduate Research Assistant *January 2021 - December 2021*

- Research with Dr. Ellen Zegura focused on exploring novel methods of extending internet boundaries
- Worked on approaches to extend connectivity in rural areas using the Internet of Things LoRa protocol
- Constructed a test bed to demonstrate the feasibility of the approach and collect experimental results
- Currently implementing methods to extend last-mile connectivity to four under-served GA communities
- Computing Research Association (CRA) Outstanding Undergraduate Researcher Award Finalist

Undergraduate Teaching Assistant *January 2021 - May 2021*

- Assisted two sections of Computer Networking totaling 180 students
- Moderated a student question and answer board and held weekly office hours
- Assisted in developing and grading assignments and socket programming projects

Progressive Insurance
Systems Engineer Intern *May 2021 - Aug 2021*

- Worked with the Systems & Infrastructure Operations team managing the company's distributed computing environment and supporting server virtualization in VSphere
- Managed servers' status in load balancers during maintenance and system failures
- Diagnosed and remediated remote claims-site routers and switches with the Network & Telecom Operations Center
- Coordinated directly with remote contacts and vendors such as AT&T and Verizon on tunnel repairs

PROJECTS

Analysis of Crime and Its Influencing Agents
Leveraged Apache Hadoop and Hive to perform analysis of big data in the Hadoop Distributed File System searching for trends and correlations between crime data and weather patterns.

Reaper Farm
Using a Raspberry Pi and socket programming, designed and implemented a fully autonomous growing system for Carolina Reaper plants. Data visualizations, plant status, and controls accessible anywhere through a self-hosted site. This project has produced over 200 peppers and counting!

TECHNICAL SKILLS

Most Experience	C, Python, Java, Arduino, ESP32, Raspberry Pi, LoRa, IoT
Some Experience	C++, Verilog, JS, HTML5, SQL, Hadoop, Hive

EXTRA-CURRICULAR

RoboJackets *August 2018 - August 2020*

Constructed a 3-pound drum spinner battle-bot that competed in both local and national tournaments as well as a 30-pound beater-bar bot for the Midwest Robotics Design Competition. Led the weapons sub-team for the second iteration of the 30-pound beater-bar bot.