Brennan Macaig

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EDUCATION

University of Massachusetts Lowell – *Lowell, MA*
Work towards a B.S in Computer Science

RELEVANT EXPERIENCE

Jr. Site Reliability Engineer – *Mutualink, Westford MA*   *May '21 – Pres*

- Automated deployments and infrastructure creation in AWS using **terraform**
- Created automation tooling to configure servers from a network source of truth
- Created, maintained, and utilized **REST** APIs as part of infrastructure automation
- Lead productization efforts and managed handoffs from the development team to bring applications through quality assurance and into production

Site Reliability Engineering Intern – *Mutualink, Westford MA*   May '20 –May '21

- Developed secure**,** scalable**, server-side** software in **Go** and **Python3**
- Created tooling to further secure and automate **CI/CD** pipelines in Go
- Developed **monitoring tools** for products to ensure customer success
- Worked with tooling like **packer**, **ansible** and **DNSControl** to build infrastructure as code
- Working knowledge of **AWS** for **Route53** and **IoT**, and minimal **IAM policies**
- Routinely used other hosting providers such as **Azure** to accomplish company goals

Software Engineering Intern – *Echo Ridge, Concord NH*   Apr '19 – Aug '19

- One of four **full stack** developers working on the **Retaen** application – a business to business **SaaS** solution for the lobbying industry.
- Developed hosting solutions with **nginx**, **SQL** and monitoring tools like **Sentry**
- Developed solutions and pipelines to test and deploy software in a CI/CD environment
- Worked in a **test-driven** development lifecycle using scrum techniques

ADDITIONAL EXPERIENCE

Resident Advisor – *University of Massachusetts Lowell, Lowell MA*   Apr '18 – May '20

Senior Counselor – *Manchester YMCA, Alton NH*   Jun '15 – Aug '18

Volunteer – *FIRST Robotics Competition*   Aug '15 – Pres

- Volunteer as a Control Systems Advisor and FIRST Technical Advisor Assistant
- Mentor team 6324 in Salem NH as a software and strategy mentor.

Projects – *Open Source Software, Robotics, Raspberry Pi / Arduino*

- Work on several open source projects like **endeavour**, **jpl**, and **certgo**
- Used Arduino for various home automation projects such as a plant watering machine
- Created a robot vision system using **OpenCV** and **Python 2.8**
- Active participant in **Advent of Code**, with several global leaderboard appearances

SKILLS

Go	Python	Linux Server / AWS / Azure
Java	Web Development	Version Control (git)
Object Oriented Development	HTML / CSS / JS	CI / CD