

# Brennan Macaig

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(603) 630-1104

## EDUCATION

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

Dec '21

## RELEVANT EXPERIENCE

**Site Reliability Engineering Intern** – Mutualink, Westford MA

May '20 – Pres

- Developed secure, scalable, **server-side** software in **Go**, **Python**, and **NodeJS**
- Developed **monitoring tools** for products to ensure customer success
- Worked with tooling like **packer** and **ansible** to create automated build pipelines
- Daily use of **AWS** for **S3**, **Route53**, and **IoT**, with a focus on creating **IAM policies**
- Routinely used other hosting providers, such as **Azure** to accomplish company goals

**Project Manager** – University of Massachusetts Lowell, Lowell MA

Apr '20 – July '20

- Managed a group of 3 developers creating a **Java** based authentication solution
- Hosted twice weekly meetings with the development team
- Employed an **agile**, **scrum**-based work environment for the development team

**Software Engineering Intern** – Echo Ridge, Concord NH

Apr '19 – Aug '19

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

## 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

- Develop on several open source projects, including **Marlin Firmware**
- Used Arduino for various home automation projects, such as a solution to remotely open doors, as well 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

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