

# Ryan Barry he/him

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## EDUCATION

Master of Science | Computer Science

University of Massachusetts Amherst

Expected Graduation: May 2026

Bachelor of Science | Major: Computer Science | Minor: Data Analytics

Stonehill College, Easton, MA

GPA: 3.53 | Dean's List | Cum Laude

August 2020 - May 2024

## SKILLS

**Languages:** Python, JavaScript, C++, Java, Rust

**Software:** AWS, Kubernetes, Docker, GitLab, Jira, Confluence, React, React Native, Jest, Jenkins, Django, Node.js, Flask, MySQL, Tensor Flow, LibTorch, NumPy, Pandas, Axum, DBeaver, Linux, MobaXTerm, Postman

## RELEVANT COURSEWORK

Network Security, Operating Systems, Machine Learning, Artificial Intelligence, Database Management, Web Programming, Algorithms, Computer Logic and Organization, Data Structures, Data Visualization, Engineering I

## WORK EXPERIENCE

### ***Software Engineer Intern***

June 2023 – August 2023

General Dynamics, Taunton, MA

- Automated environmental stress testing through Python scripts for performance evaluations
- Integrated 40+ unit tests into CI/CD DevSecOps pipelines for robust code and accelerated development
- Deployed production code to AWS EC2 instances, utilizing Kubernetes pods
- Conducted live product demonstrations to build stakeholder confidence and showcase progress

### ***Development Operations Engineer***

January 2024 – May 2024

Jewish Positivity Start Up, Easton, MA

- Created and maintained development of iOS and Android app to support Jewish community
- Configured and resolved issues with peers' development environments
- Automated push notification scheduling and management using OneSignal's API
- Developed four CI/CD pipelines to execute Django and React Native Jest unit tests and alert developers
- Deployed Django backend to production on DigitalOcean server, utilizing Apache and Docker
- Enhanced app speed up to 80% and decreased backend load up to 90% with caching

### ***Full Stack Developer***

May 2023 – December 2023

Local Treasure Start Up, Wayland, MA

- Developed and designed iOS and Android application using React Native and Django
- Collaborated with business owner to transform ideas into product while preserving the original vision
- Fulfilled stories and implemented features such as "shop data analyst" page or "store finder map"

### ***Programming & Engineer Teacher Assistant***

January 2023 – May 2024

Stonehill College, Easton, MA

- Designed assignments that further understanding of engineering concepts and develop critical thinking
- Guided thought-provoking conversations with students to assist in writing code and wiring hardware
- Helped 20+ students learn 3D modeling in Blender and using slicer software for 3D printers

## PROJECTS

**JoJo's Bizarre API** REST API querying fine-tuned GPT2 model | Rust, Axum, Docker, Libtorch, Github Workflow

**Magnitude Prediction** Earthquake magnitude ML models | TensorFlow, USGS API, Github, Anaconda, VSCode

**Power!** Head developer for money transfer web service | Python, Flask, DBeaver, Codio, Google Pay API

**Spectrum** Led development for inclusive chat for autistic community | React, Nodejs, TailWindCSS, MySQL, VSCode