

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, Google Cloud, PostgreSQL, Ubuntu Server OS, Grafana, Prometheus, Apache, NGINX

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