

# Ryan Barry

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## EDUCATION

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

Stonehill College, Easton 02357

GPA: 3.53 | Dean's List | Cum Laude

December 2020 - May 2024

## SKILLS

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

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

## RELEVANT COURSEWORK

Operating Systems, Algorithms, Machine Learning, Artificial Intelligence, Database Management, Web Programming, Theory of Computation, Computer Logic and Organization, Data Structures, Linear Algebra, Discrete Math, Data Visualization, Engineering I

## WORK EXPERIENCE

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

June 2023 – August 2023

General Dynamics, Taunton 02780

- Integrated 40+ unit tests into CI/CD DevSecOps pipelines for robust code and accelerated development
- Automated environmental testing through Python scripts for performance evaluations
- Collaborated on code using GitLab, ensuring efficient version control and seamless teamwork
- Tested code on EC2 instances, by deploying pods to Kubernetes, optimizing scalability and compatibility
- Conducted live product demonstrations to build stakeholder confidence and showcase progress

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

Jewish Positivity Start Up, Easton 02357

January 2024 – May 2024

- Automated push notification scheduling and management using OneSignal's API
- Developed four CI/CD pipelines to execute Django and React Native Jest unit tests
- Deployed Django backend to production on a Digital Ocean VM, utilizing Apache and Docker
- Enhanced app performance and decreased backend load by implementing caching on the frontend
- Configured and resolved issues in development environments for students

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

Local Treasure Start Up, Wayland 01778

May 2023 – December 2023

- Developed and designed iOS and Android application using React Native and Django
- Fulfilled stories and implement features on Pivotal tracker to foster agile development and efficient teamwork
- Collaborated with business owner to transform ideas into product while preserving the original vision

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

January 2023 - Present

Stonehill College, Easton 02357

- 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, Node.js, TailWindCSS, MySQL, VSCode