

Xavier Ruiz

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Education

Boston University

Bachelor of Arts, Master of Science in Computer Science

Fall 2018 - Spring 2022

GPA: 3.61

Experience

Back-End Software Developer, Boston, MA

May 2020 - Present

BEAGLENET START-UP

- Competed in local competitions to be awarded \$20,000+ in seed money
- Connected IOT devices to DynamoDB by leveraging Lambda functions and MQTT messaging events
- Designed GraphQL API and configured DynamoDB database to save money by using less data per request

Software Developer, Boston, MA

August 2018 - Present

BOSTON UNIVERSITY PHYSICS DEPARTMENT

- Programmed Github Pages front-end site to teach about the science of physics and light
- Migrated site from PHP backend to modern, scalable, easier-to-maintain Node.js backend
- Implemented service workers and CloudFlare caching to speed up site load time to be <1s

TechStart Intern - DevOps, Dover, NH

June 2020 - August 2020

LIBERTY MUTUAL INSURANCE

- Created React website to better inform our customers my team offers containerization and cloud migration
- Linked BitBucket webhooks with Slack to alert my team of new pull requests and merges
- Automated monitoring of over 20+ servers through a React web app with Express backend

Projects

“TravelAnywhere” App, Developer

May 2020 - Present

- App allows users to input multiple locations, their hours, and it will generate an optimized round trip
- Experimented with multiple algorithms including brute force, genetic, and combinatorial optimization

“Dichopter Project” Website, Developer

August 2018 - Present

- Website containing illusions and simulations that seek to teach how light perception works
- Engineered virtual reality viewer on site using p5.js library, made site accessible, used Materialize CSS

“BostonHacks” Website, Developer

August 2019 - Present

- BostonHacks Website, Boston’s largest hackathon of 500+ hackers with \$50,000+ sponsored annually
- Built and designed landing page, made site 98% faster by optimizing resources, and animated SVGs

Activities

Boston University Information Lab & Design Space, Vice President

August 2018 - Present

- Leading bi-weekly workshops to teach undergraduates about topics like Vim, React, and stack smashing

BostonHacks, Officer on Tech Team

August 2019 - Present

- Coordinating team member meetings to ensure we meet our production goals and deadlines

HackBeanpot, Officer on Tech Team

May 2020 - Present

- Directing animation style on site and showing other members how to use React Spring for animations

Skills

Languages: JavaScript, C, Python, C++, Java, Processing, SVG, SQL, OCaml, Bash, GraphQL

Frameworks & Libraries: React, Vue, p5.js, Next.js, Expo, Jest, TailwindCSS, Materialize UI, Bootstrap

Technologies: Git, Linux, Docker, Adobe Illustrator & Photoshop, Atlassian, Agile, WebSockets, AWS