

Xavier Ruiz

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Education

Boston University

Bachelor's in Computer Science

September 2018 - May 2022

GPA: 3.61

Experience

TechStart Developer - Full Stack, Liberty Mutual Insurance

June 2020 - August 2021

- 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
- Expanded the company's services by engineering a new information portal

Software Developer, Boston University Physics Department

August 2018 - May 2021

- 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

Back-End Software Developer, BeagleNet Start-up

May 2020 - September 2020

- 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

Projects

"Doge Traders", DEBS 2022 Challenge application

January 2022 - May 2022

- Competed in international competition to create efficient stock stream analytics app

"Tabby", Emacs tab customization package

February 2022 - March 2022

- Published package allowing users to customize the tab bar with animated virtual pets

"Dichopter", Light perception simulation website

August 2018 - May 2021

- Engineered virtual reality viewer on site using p5.js library, made site accessible, used Materialize CSS

"TravelAnywhere", Round trip optimization app

May 2020 - January 2021

- Experimented with multiple algorithms including brute force, genetic, and combinatorial optimization

Activities

Boston University Information Lab & Design Space, President

August 2018 - May 2022

- Leded bi-weekly workshops to teach undergraduates about topics like Vim, React, and hacking

BostonHacks, Design Team Lead

August 2019 - May 2022

- Built landing page components, made site 98% faster by optimizing resources, and animated SVGs
- Designed website for Boston's largest hackathon of 500+ hackers with \$50,000+ sponsored annually

Boston University Cybersecurity Association, Officer

May 2020 - May 2021

- Organized and created challenges for a university-wide hacking competition

Skills

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

Frameworks & Libraries: React, Vue, p5.js, Flink, Kafka, Next.js, Expo, Jest, Angular, JQuery, Bootstrap

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