

# Xavier Ruiz

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## Education

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**Boston University**  
Bachelor of Arts in Computer Science

*September 2018 - May 2022*

## Experience

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**Full Stack Developer**, 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 *August 2018 - May 2021*

- Programmed Github Pages frontend 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 less than one second

**Backend Developer**, BeagleNet *May 2020 - September 2020*

- Competed in local competitions to be awarded over \$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

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**"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

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**Boston University Information Lab & Design Space**, President *August 2018 - May 2022*

- Hosted 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 over \$50,000 sponsored annually

**Boston University Cybersecurity Association**, Officer *May 2020 - May 2021*

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

## Skills

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**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