Xavier Ruiz

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EDUCATION

Boston University *Fall 2018 - Spring 2022*
Bachelors of Arts, Masters of Science in Computer Science GPA: 3.84

Technical Skills: HTML/CSS, Javascript, Java, SQL, OCaml, Python, C, Bash, Git, Linux, Adobe Photoshop, Adobe Illustrator

EXPERIENCE

Software Developer, Boston University *August 2018 - Present*
- Built front-end using p5.js library, implemented service workers to cache pages and transformed site into a progressive web app. Developed numerous stereographic illusions, physics simulations, and optimized simulations for mobile viewing.
- Focused on accessibility and page-layout design. Adding more simulations to site, researching how Web Assembly can be used to speed up simulations, conducting more research with professor.

Software Developer, BU Spark! *August 2019 - Present*
- Currently working under computational artist Francisco Alarcon, building a robot for an art exhibition. Meeting weekly, reporting with new developments on simulations and robot to be complete by the end of the semester.

PROJECTS

Dichopter Project, Developer *August 2018 - Current*
- Created Progressive Web App (PWA) that enables students to explore dichoptic phenomena with their smartphones. Used p5.js library for animations optimized site load time to be ¡1s.
- Continually adding new illusions, simulations, and other projects that seek to teach and inform the public about how light and perception really works.

Boston Hacks Website, Developer *September 2019*
- Implemented design given by design team of BostonHacks, Bostons largest hackathon. Worked with SVG animations, optimized site load time by minifying the SVGs, and made site mobile-friendly.
- Inspected site load times and transformed heavy resources into SVG, made site 99% smaller.

Azteca Home Services Website, Developer *September 2019*
- Deployed new website utilizing the Materialize CSS framework, redesigned flow of website, updated form input and validation, create a branding guide, improved SEO.

ACTIVITIES

BUILDS (Boston University Innovation Lab & Design Space), Vice President *August 2018 - Present*
- Aided in planning student activities for freshman, began initiative for a Student Project Fund, coordinating with the Engineering and Product Innovation Center to set up new workshops for the computer science community.

0XBU (Capture the Flag), Officer *August 2019 - Present*
- Hosting weekly workshops on topics such as Ghidra, buffer overflow attacks, capture the flag competitions. Currently working towards competing at local schools.

BostonHacks, Officer on Tech Team *August 2019 - Present*
- Planning on a team for a hackathon with attendance of over 500 hackers, running workshops during event, and coordinating with sponsors to make BostonHacks easier for sponsors to reach students.