

Xavier Ruiz

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EDUCATION

Boston University

B.A. / M.S. in Computer Science

Expected May 2022

Cumulative GPA: **3.54**

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

Languages: English and Spanish (AAPL Seal of Biliteracy)

WORK EXPERIENCES

Boston University, Software Developer

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.

BU Spark!, Software Developer

August 2019 - Present

- Currently working under computational artist Francisco Alcaron, 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.

Azteca Home Services, Office Manager

May 2019 - August 2019

- Set up phones, wrote work manuals, ran general business operations, worked in an office setting, answered phone calls, created weekly schedules for landscape and pest control subdivisions.
- Recovered over \$7,000 from collections, designed new website, moved entire customer database to a new CRM, interviewed over 50 candidates for leave, trained in newly selected candidate.

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 Landing Page, Developer

September 2019

- Implemented design given by design team of BostonHacks, Boston's largest hackathon. Worked with SVG animations, optimized site load time by minifying the SVGs, and made site mobile-friendly

Azteca Home Services Website, Developer

August 2019

- Deployed new website utilizing the Materialize CSS framework, redesigned flow of website, updated form input and validation, create a branding guide, improved SEO

LEADERSHIP & ACTIVITIES

BUILDS (Boston University Innovation Lab & Design Space), Vice President

August 2019 - 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, Marketing Team Officer

August 2019 - Present

- Working to ensure BostonHacks' attendance is high through email blasts, newsletter writing, and presenting to classes