

Ryan Jung

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Education

Northeastern University | Boston, MA

Expected May 2023

B.S. in Computer Science + Minor in Interaction Design

Honors/Awards: 3.77/4.00 GPA, Dean's List Fall 2019, Spring 2020

Relevant Coursework: Algorithms & Data, Object Oriented Design, Fundamentals of Computer Science 1 & 2

Work Experience

Code4Community

July 2020– Present

Lead Frontend Developer (c4cneu.com)

- Redesigned Code4Community's website from the ground up with a focus on performance and SEO.
- Used React.js + Typescript to develop clean and typesafe component structures for maximal code reuse.
- Managed a team of four developers and one designer using Agile principles.
- Developed using universal design principles to ensure exceptional contrast and accessibility.

Code4Community

Sept 2019 – July 2020

Fullstack Web Developer (Testing & Security Team)

- Used Vue.js to create a responsive front-end for the now deprecated Code4Community website.
- Increased code coverage with JEST and vue-test-utils to cover critical methods and logic for Vue components.
- Implemented RESTful API routing in Java with Vert.x to create records in a PostgreSQL database.
- Added JWT verification to only allow authenticated users access to protected API endpoints.
- Participated in a team using the Agile method for collaboration and productivity.

Personal Projects

Personal Website: ryanjung.dev (for additional information and projects)

- Used React.js and Gatsby to create a portfolio site, reaching scores of 95+ per category on Lighthouse Web Audit

FundiesCollab (fundiescollab.com)

- Used Vue and Express to create a collaborative real-time code editor for Java with a built-in tester library.
- Open sourced and maintained with 9+ stars on Github.
- Deployed on a DigitalOcean droplet, used by a peak of 60+ students to collaboratively write and run code.
- Used Docker to containerize and isolate potentially malicious user submitted code.
- Used socket.io with Express to create "rooms", allowing multiple users to work on the same code in real time.
- Used Firebase for simple reliable user authentication and authorization.
- Used Redis as a fast yet persistent cache, saving code for up to 7 days after the last edit.

baby-racket (baby-racket.netlify.app)

- Created a miniature Racket/Scheme/LISP interpreter in Javascript without any packages or dependencies.
- Implemented environment frames, lambdas, local definitions, structures, lists, strings, vectors, and symbols.
- Implemented built-in testing function, comparing values by deep extensional equality.

DrRacket code-sync

- Created a plugin in Racket for the DrRacket IDE to quickly share code around the world as a tool to facilitate pair programming for incoming freshmen taking computer science courses in the Fall.
- Developed GUI and client-side websocket logic to allow users to quickly send and receive code updates.
- Implemented Node.js websocket server for fast and reliable connections between users.

Skills

Proficient: Javascript, Typescript, React.js, Vue.js, Node.js, Express, Git, GatsbyJS, Java, Python, HTML5 / CSS

Familiar: D3.js, C#, Unity3D, Ruby on Rails, PHP, MongoDB, PostgreSQL

Interests

Volunteering at K-12 after school programs in Boston; Cooking & baking; Watercolor painting; Starcraft II