

# Ryan Jung

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## EDUCATION

### NORTHEASTERN UNIVERSITY

B.S. in Computer Science  
Minor in Interaction Design  
Sept 2019 - May 2023 | Boston, MA  
Khoury College of Computer Sciences  
GPA: 3.63 / 4.0

## COURSEWORK

### UNDERGRADUATE

Computer Systems  
Networks & Distributed Systems  
Algorithms & Data  
Object Oriented Design  
Intro to Computer Science Research  
Logic & Computation  
Mathematics of Data Models  
Discrete Structures

## SKILLS

### LANGUAGES

Java • Python • Javascript •  
Typescript • C • Rust • Racket •  
Common LISP • SQL • HTML • CSS

### TECHNOLOGIES

Git • React.js • Vue.js • Node.js •  
Express • GatsbyJS • Vert.x •  
MongoDB • Django • Docker • Redis

## AWARDS

### RESEARCH

Selected Student Volunteer for ACM  
SIGPLAN International Conference on  
Functional Programming 2020

### OTHER

11th in Innovation Ludem Dare 46

## INTERESTS

Universal Design  
Architecture  
Collegiate Starcraft II

## EXPERIENCE

### Software Development Co-op | John Hancock

Jan 2021 - June 2021 | Boston, MA  
• Incoming Software Development Co-op for Spring 2021.

### Project Lead, Full-stack Developer | Code4Community

Sept 2020 - Present | Boston, MA  
• Developed a React/Redux and Java Vert.x web app for Lucy's Love Bus, a Boston based charity for children with life threatening illnesses.  
• Developed an accessible Typescript frontend with Ant Design and Figma.  
• Augmented Java Vert.x REST API and tested with Postman.  
• Utilized JOOQ ORM to store essential information in PostgreSQL database.  
• Increased test coverage by 12% and completed Javadoc coverage for 5 complex classes and their interfaces.

### Lead Frontend Developer | Code4Community

July 2020 - Sept 2020 | Boston, MA  
• Managed development in React.js, Typescript, and Material UI to build an elegant and responsive website.  
• Increased click-through-rate by 19.9% in 1 month of development through SEO optimization.  
• Constructed using universal design principles to ensure exceptional contrast and accessibility through screen readers.

### Teaching Assistant | Northeastern University

Sept 2020 - Dec 2020 | Boston, MA  
• Taught and mentored computer science students in Northeastern's introductory course CS2500 Fundamentals of Computer Science 1.  
• Led breakout sessions in labs and held office hours, explaining foundational concepts to groups of 2-4 students >5 hours a week.  
• Covered atomic data, lists, trees, recursion, and accumulators.

## PROJECTS

### Programming Language & Interpreter

July 2020 | website | github  
• Devised a miniature Racket/LISP interpreter in Javascript without any packages or dependencies.  
• Accomplished environment frames, lambdas, local definitions, structures, lists, strings, vectors, and symbols.  
• Coded language specific testing function, comparing expressions by deep extensional equality.

### Collaborative Code Editor Web App

April 2020 | website | github  
• Created a collaborative real-time code editor for Java with Vue and Express; used by a peak of 60+ students to collaboratively write and run code.  
• Protected users by isolating potentially malicious user submitted code in Docker containers.  
• Produced a fast yet persistent database utilizing Redis, saving code for up to 7 days after the last edit.