

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: 3.81 / 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

Javascript • Typescript • Java •
Python • 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

JOHN HANCOCK | Incoming Software Development Co-op

Expected Jan 2021 - June 2021 | Boston, MA

LUCY'S LOVE BUS | Student Lead Full-stack Developer

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 terminally ill children and their families.
- Developed an accessible Typescript frontend with Ant Design and Figma.
- Augmented Java Vert.x REST API to accommodate new endpoints and testing 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.

CODE 4 COMMUNITY | Student Lead Frontend Developer

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

BABY-RACKET | 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.

FUNDIESCOLLAB | 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.