

Ryan Jung

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Education

Northeastern University

Sept 2019 - May 2023

Bachelor of Science, Computer Science; Minor, Interaction Design

- Cumulative GPA: 3.64/4.0, Dean's List
- Relevant Coursework: Object Oriented Design, Algorithms & Data, Computer Systems, Networks & Distributed Systems, Mathematics of Data Models, Introduction to Computer Science Research

Work Experience

Cisco Systems

June 2021 - Present

Technical Undergraduate Intern

Cambridge, MA

- Developed AngularJS frontend components in Javascript for the Cisco Defense Orchestrator project (CDO).
- Implemented RESTful APIs and microservices in Node.js with Express and Typescript.
- Implemented object oriented design patterns in Java microservices to support critical security policy services.
- Deployed **4** impactful features to production in the first **2 weeks**, complete with unit and E2E tests.
- **Utilized:** Java, Javascript, Typescript, AngularJS, Node.js, MongoDB, RabbitMQ, Docker, AWS Lambda

John Hancock Financial

Jan 2021 - June 2021

Software Development Co-op

Boston, MA

- Developed efficient $O(n)$ algorithms in Python to process over **139 million** records of financial data, with average speed of **1.2 million** records per second.
- Reduced run-time of script by **91%** (180s to 15s) using Perl through memoization of frequent function calls.
- **Utilized:** Java, Python, Perl, Javascript, Spring, React, MSSQL, Azure Cloud

Code4Community

Sept 2020 - Present

Vice President / Director of Engineering

Boston, MA

- Led an organization of **40** students to create software for 4 nonprofits in Boston; expected to reach more than **75,000** users in 2022, including children with cancer, environmental conservators, and disadvantaged students.
- Managed a team of **8** developers using Agile, Scrum, and Kanban methodologies.
- Created performant and accessible full-stack web apps with React, Redux, Java Vert.x, and PostgreSQL.
- **Utilized:** Java, Vert.x, Typescript, React.js, Redux, PostgreSQL, AWS, Docker, Stripe, JUnit, Jest, Cypress

Project Experience

- **CEA Tournament Manager:** Contributed to tournament manager for corporate esports used by teams at Google, Facebook, Amazon, Microsoft, and more. Project raised **\$44,000** for charity in Spring 2021.
- **Calendso:** Contributed to open source meeting scheduler app with over **4,000** stars on Github.
- **Collaborative Code Editor:** Created an online platform used by over **60** students to code together remotely.
- **Memory Allocator:** Implemented memory allocator for linked lists in C that outperforms GNU by **16%**.

Skills

- **Languages:** Java, Javascript, Typescript, Python, C, Perl, Go, Rust, Ruby, C#, C++, Racket, SQL
- **Frameworks:** React.js, Spring, Vert.x, AngularJS, Vue.js, Express, Gatsby, Next.js
- **Technologies:** Ubuntu, Debian, Linux, Git, Node.js, PostgreSQL, Docker, Redis, MongoDB, RabbitMQ, AWS

Awards & Achievements

- **11th in Innovation, Ludum Dare 46:** Voted 11th out of over 3000 teams in the world's largest game jam.
- **ICFP 2020 Volunteer:** Attended the International Conference for Functional Programming (ICFP) 2020.
- **Esports Captain:** Founded Northeastern's first competitive Starcraft II team; Top 8 collegiate team in Fall 2020.