

Ryan Jung

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Skills

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

Familiar: Python, C#, Unity3D, Ruby on Rails, PHP, MongoDB, PostgreSQL

Education

Northeastern University | Boston, MA

Expected June 2023

Major: B.S. in Computer Science with Specialization in Software

Honors/Awards: 3.68/4.00 GPA, Dean's List Fall 2019

Singapore American School | Singapore, Singapore

Graduated June 2019

Certificate: High School Diploma (4.27/5.00 GPA)

Relevant Courses:

AT Computer Science: Data Structures (Stacks, Queues, Heaps, Trees, Graphs) in Java

Personal Projects

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

- Used React.js with Gatsby to create a fast portfolio site, reaching nearly perfect scores on Lighthouse Web Audit

Utilized: GatsbyJS, React.js, GraphQL

FundiesCollab

- Used Vue and Express to create a collaborative real-time code editor for Java with a simple tester library
- Created with open-source in mind and actively maintained with 9+ stars on Github
- Deployed on a DigitalOcean droplet, used by a peak of 60+ users for simple code sharing with convenient compiling
- Used Docker to containerize and isolate potentially malicious user submitted code
- Used socket.io with Express to create collaborative "rooms" that allow many users to edit the same code in real time
- Used Redis as a fast yet persistent cache, saving code for up to 7 days after the last edit

Utilized: Vue, Express, socket.io, Redis, Docker

Explorable Trie

- Developed interactive visualization of the Trie data structure using vanilla javascript and D3.js to educate high schoolers about this computer science topic.

Utilized: Javascript, D3.js

Work Experience

Code 4 Community

Sept 2019 - Present

Testing and Security API STO Lead (Frontend and Backend)

- Used Vue.js to create a responsive front-end for the Code 4 Community software development club website at Northeastern.
- 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 routes.
- Participated in a team using the Agile method for collaboration and productivity.

Utilized: Javascript, Vue.js, JEST, Java, Vert.x, PostgreSQL

(Freelance)

Feb 2018 - May 2018

Architectural Model Engineer and Designer

- Used Unity3D and Blender to create a fully interactive and to-scale virtual architectural model of redesigned health and wellness center.
- Utilized SteamVR to create a virtual reality extension of this project to showcase at school event with over 100 students.

Utilized: C#, Unity3D, SteamVR Developer Kit

Interests

Volunteering at local afterschool programs; Cooking & baking; Watercolor painting