



# Jiayue Zhang

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## EDUCATION

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### Bachelor of Arts in Computer Science, Honors

Toronto, ON

*York University, 3rd year student currently enrolled in co-op program*

*Expected graduation Aug 2023*

### GPA 3.91/4.0

*Courses: Advanced OOP in Java, Data Structures, Algorithms, Operating Systems, Database Systems, Software Design*

## TECHNICAL SKILLS

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**Languages:** Java, SQL, C, JavaScript, HTML, CSS, Python

**Frameworks:** Spring Boot, JUnit, React, Bootstrap, Jest

**Developer Tools:** MySQL, Git, Linux commands, VS Code, Eclipse, IntelliJ, Pycharm, Emacs

## PROJECTS

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### TO-DO List | *Java, Spring Boot, JUnit, React, Bootstrap, Azure*

May 2022 – June 2022

- Developed a full-stack web app with Spring Boot as back-end and React as front-end
- Enhanced React frontend to use Basic Auth API and then replaced with JWT to validate login
- Designed 6 RESTful APIs and deployed on Azure
- Integrated frontend and the backend with JPA and Hibernate

### HackerNews | *JavaScript, React, Jest, Enzyme, HTML, CSS, Heroku*

December 2021 – January 2022

- Developed web application Using Hacker News API to fetch trending stories with React as the front-end
- Implemented server-side search functionality and client-side caching to cache paginated data effectively
- Introduced error handling using local state and conditional rendering
- Used Axios to perform asynchronous requests to remote APIs
- Conducted snapshots tests with Jest and unit tests using Enzyme

### Personal Website | *Javascript, React, Bootstrap, HTML, CSS, AWS*

May 2022 – Present

- Developed single page web application to display side projects with React
- Utilized React Route to navigation between React components
- Designed components and beautified with Bootstrap
- Deployed on Amazon AWS

### BearMaps | *Java, Spark, JUnit*

November 2021 – December 2021

- Developed algorithms for a web application's back-end which is similar to Google Maps
- Introduced algorithm for map rastering API, which takes user's query box and generates corresponding image
- Constructed graph using real world dataset in OSM XML file format for routing purpose using a SAX parser
- Implemented A\* algorithm to find the shortest path between two nodes on the graph

### OS Resource Allocation | *C, gdb, Linux commands*

March 2022 – March 2022

- Simulated resource allocation with First Come First Serve and Banker's algorithms
- Implemented deadlock detection algorithm

## EXPERIENCE

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### Service Attendant

October 2021 – February 2022

*PanPan Noodle Bar*

*North York, ON*

- Provided quality customer service and worked effectively with other staff
- Learned time management skills by working part-time while being a full-time student