

Jiayue Zhang

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EDUCATION

Bachelor of Arts in Computer Science, Honors

Toronto, ON

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

Expected graduation October 2023

GPA 3.91/4.0

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

TECHNICAL SKILLS

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

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 ☑

May 2022 – Present

- Developed single page web application to display side projects with React
- Utilized React Route to navigation between pages
- Designed the web pages and beautified with Bootstrap

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 detecting algorithm

EXPERIENCE

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