Jiayue Zhang

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EDUCATION

Bachelor of Arts in Computer Science, Honors <div align="right">Toronto, ON</div>
York University, 3rd year student currently enrolled in co-op program <div align="right">*Expected graduation Aug 2023*</div>

GPA 3.91/4.0
Courses: Advanced OOP in Java, Data Structures, Operating Systems, Database Systems, Software Design

EXPERIENCE

Software Development Intern <div align="right">September 2022 – April 2023</div>
BlackBerry <div align="right">*Mississauga, ON*</div>

- Designed and implementation of various service components
- Created and execute unit tests
- Updated design documentation, configuration or troubleshooting guides
- Helped investigate, troubleshoot and resolve customers and production issues

PROJECTS

Todo List | *Java, Spring Boot, JUnit, React, Bootstrap* ⌾ <div align="right">May 2022 – June 2022</div>

- Developed a full-stack web app with Spring Boot as back-end and React as front-end
- Ehanced 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

HackerNews | *JavaScript, React, Jest, HTML, CSS, AWS* ⌾ <div align="right">December 2021 – January 2022</div>

- 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
- Used Axios to perform asynchronous requests to remote APIs
- Deployed on Amazon AWS

Personal Website | *Javascript, React, Bootstrap, HTML, CSS, AWS* ⌾ <div align="right">May 2022 – Present</div>

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

BearMaps | *Java, Spark, JUnit* ⌾ <div align="right">November 2021 – December 2021</div>

- 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* ⌾ <div align="right">March 2022 – March 2022</div>

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

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