RUIYANG CHEN

+1(778)776-5379

rc07@student.ubc.ca ⋄ linkedin ⋄ github.com/Map1eUM

EDUCATION

Bachelor of Science in Computer Science, The University of British Columbia   Sep 2022 - Expected 2026

Bachelor of Computer Science, University of Manitoba   Sep 2021 - Aug 2022

SKILLS

Programming	C++(6 yrs), C, Java(6 yrs), HTML, CSS, TypeScript, python, Node.js
Frameworks	Kubernetes, ReactJS, Flask, Django
Database	MySQL,MongoDB, Oracle/SQL* Plus, PostgreSQL, Redis
Tools	Docker ,Bash, Git, Vim,Shell,AWS
Testing	JUnit, GDB, Mochi

EXPERIENCE

Undergraduate Research, University of Manitoba   May 2022 - Aug 2022

- Research on Graph Burning and the generalized Turán Number, collaborating with others to solve the Graph Burning adversary version problem.

- Used a greedy approach to solve the tree Turán number.(maximum number of edges a graph can have without containing a particular subgraph)

TECHNICAL PROJECTS

CloudyBlue   Nov 2023 - Dec 2023

- This project used React, Java, Oracle/SQL* Plus utilized Microsoft's platform and Graph API to build a web drive for users. It supports file sharing through links and optimizes disk storage by intelligently managing duplicate files.

- The relational model is designed based on Oracle. Performance isn't ideal during pressure test, so Performance was enhanced during a pressure test with concurrent file requests using ReactPHP, yielding 90% quicker response time.

- implemented database security measures, including DBMS ASSERT for SQL injection filtering and security testing to prevent most basic injection attacks, ensuring system integrity.

UBC Course Finder   Nov 2023 - Dec 2023

- This project offers a web interface for accessing detailed information on selected or potential course sections, serving as a valuable resource for students.

- developed concurrency system for high performance(improved 90% for response speed)

- Developed a pretty minimalism front-end interface with React.

HONORS AND AWARDS

Dean's Honour List, University of Manitoba Faculty of Science   May 2022

2022 Undergraduate Research Award, University of Manitoba   Mar 2022

First Prize, National Olympiad of Informatics in Province (NOIp), China Computer Foundation   Nov 2019, Nov 2018