

Jun Kai Zhang

1017 McBride Ave, Mississauga, ON., L5C 1M3
416-786-1259 | jkai.zhang@mail.utoronto.ca | linkedin.com/in/jun-kai-zhang/

SKILLS SUMMARY

- Languages: JavaScript, TypeScript, NodeJS, HTML, CSS, Java, Python, C++, C, Bash
- Frameworks/Libraries: React, React Native, Angular, Express
- Database: PostgreSQL, SQLite, MongoDB
- Other: Git, GitHub, Docker
- Strong written and verbal communication skills applied in the GoHere app
- Excellent problem-solving skills applied in developing PintOS and Dungeon Venture
- Solid understanding of relational databases applied in the Stock Social Network
- Advanced understanding of RESTful APIs developed in the Programming on the Web course
- Solid experience with CI/CD pipeline developed in the Programming on the Web course

EDUCATION

Honours Bachelor of Science, Computer Science

Sep 2022 - Present

University of Toronto Scarborough

Specialist in Computer Science Co-op

CGPA: 3.63/4.00

PROJECTS

Stock Social Network

Jul 2024 - Aug 2024

- Optimised database relations by using foreign keys rather than an intermediate relation using keys from both tables to reduce the number of joins
- Applied normalisation to ensure the database is in BCNF, minimising data redundancy and anomalies

PintOS

May 2024 - Aug 2024

- Prevented kernel panics during I/O operations by implementing frame pinning which prevented eviction while performing I/O operations on them

GoHere App

Jan 2024 - Apr 2024

- Wrote comprehensive documentation for a configuration script which successfully aided peers in understanding how to utilise it
- Communicated possible API requests that could crash the server to peers, which prompted them to revise their code

Dungeon Venture

Nov 2023 - Present

- Fixed iterator bugs by using comparisons to an inorder traversal function for occurrences of mismatches; ultimately pinpointing the error that was to be fixed
- Abstracted data structure methods to hide implementation details to reduce tight-coupling of the code

RELEVANT COURSEWORK

Programming on the Web

May 2024 - Aug 2024

- Built REST API with Express framework to simplify the development of the routers and the implementation of JWT authentication middlewares
- Implemented GitHub Action workflows to automate testing as well as deployment of Docker containers for app services on a Google virtual machine