Frank Kong

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TECHNICAL SKILLS

Languages: *JavaScript, Java, Python, C, HTML/CSS*
Frameworks: *ReactJS, TailwindCSS, NodeJS, Express.js*
Developer Tools: *AGILE, Git, Docker, PostgreSQL, MongoDB, Postman, Jira, DigitalOcean*
Testing Tools: *JUnit, TestNG, Pytest, Selenium*

EDUCATION

Candidate, Honours Bachelor of Science (Co-op), Computer Science Specialist
University of Toronto Scarborough, Scarborough, ON   Expected Graduation Aug 2023

- CGPA: 3.65/4.00
- Entrance Scholarship (Merit-based)
- Relevant Courses: Software Engineering, Database Theory, Algorithm Design, Web Programming

PROFESSIONAL EXPERIENCE

Software Developer / CGI Inc. (Toronto, Canada)   May 2022 - Dec 2022

- Designed and implemented an automated test suite in Java using OOP to reduce QA testing time by at least 50%
- Took the initiative and ownership of Dockerizing the test suite, decreasing the complexity of running the tests and increasing the efficiency of the testing team by 20%
- Played a key role in the deployment phase of external projects through preparing MOP (Method of procedure) documents and hosting client review sessions

PROJECTS

Scikit-learn - Open Source Development (Github)   Jan 2022 - Apr 2022

- Worked in a team of 7 to resolve 4 different issues from the Scikit-learn open-source Python library, including the parallelization of a Python function that calculates barycenter weights
- Created various design documents, including a class diagram and 2 sequence diagrams through analyzing the Scikit-learn source code

InstaChat - Full-Stack Web Application (Github)   Jan 2022 - Apr 2022

- Collaborated in a team of 3 to develop a secure and fully-functional video/voice chatting application with a shared drawing board that supports multi-user interactions
- Implemented the voice-chatting feature and an advanced drawing board that allows multiple users to draw and add shapes in real-time using React and WebSocket
- Deployed application on DigitalOcean using Docker

Pawsup - Full-Stack Progressive Web Application (Github)   Sep 2021 - Dec 2021

- Collaborated with 6 other people to develop a full-stack e-commerce PWA using React and Express.js
- Implemented advanced filtering and pagination system on the product and service pages, increasing user-friendliness and overall usability of the application
- Followed AGILE methodology to increase flexibility and ensure that the team meets our milestones
- Used modularization principles to ensure that the codebase is readable, maintainable and efficient

Zoomer - Backend API for Uber Mock Application (Github)   Oct 2021 - Nov 2021

- Designed and developed microservice style APIs for user and trip information using Java
- Used a docker-compose file to orchestrate the connections between each microservice and their databases
- Designed an API gateway that served as an entry point to our APIs and used multithreading to allow the gateway to handle multiple requests, improving security and usability of the API
- Increased code coverage by 20% by writing maintainable and reusable JUnit tests