Frank Kong

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TECHNICAL SKILLS

Languages: *JavaScript, Python, Java, HTML/CSS, SQL*
Frameworks: *ReactJS, Bootstrap, TailwindCSS, NodeJS*
Developer Tools: *Git, Docker, PostgreSQL, MongoDB, Postman, Jira*

EDUCATION

Candidate, Honours Bachelor of Science (Co-op), Computer Science Specialist
University of Toronto Scarborough, Scarborough, ON   Sep 2018 - Present
- CGPA: 3.55/4.00
- Entrance Scholarship (Merit-based)
- Relevant Courses: Software Engineering, Database Theory, Algorithm Design, Web Programming

PROFESSIONAL EXPERIENCE

Software Developer / CGI Inc. (Toronto, Canada)   May 2022 – Present
- Applied software engineering skills such as object-oriented programming to develop and maintain a test-automation project aimed to speed up the workflow of quality assurance analysts
- Led my team in the effort to Dockerize the test-automation project by implementing Dockerfile and docker-compose files, which further decreased the complexity of running the tests
- Played a key role in the design phase of an external project through implementing client feedbacks into design documents and hosting internal/external review sessions

Scikit-learn - Open Source Development (Github)   Jan 2022 - Apr 2022
- Worked in a team of 7 to resolve 4 different issues ranging from deprecation to multi-threading support for Scikit-learn, an open-source python library
- Applied software engineering techniques to design various documents, including class and sequence diagrams

PROJECTS

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
- Participated in the deployment of this application onto DigitalOcean using Docker
- Performed various tests along with code-reviews in order to enhance the stability of the application and to detect security vulnerabilities

Pawsup - Full-Stack Progressive Web Application (Demo)   Sep 2021 - Dec 2021
- Worked in a team of 7 to develop several responsive React components such as sign-up and service pages that readily interacts with the server-side PostgreSQL database using scrum-based agile developmental strategies
- Maintained dependency structure of the codebase using object-oriented design principles such as encapsulation
- Engaged in code-reviews in order to ensure our group follows good programming practices and that the code is readable, efficient, and modular

Zoomer - Backend API for Uber Mock Application (Github)   Oct 2021 - Nov 2021
- Implemented users microservice and trip information microservice that utilized PostgreSQL and MongoDB databases respectively, obtaining profound understanding of RESTful API design concepts in Java
- Designed an API gateway that served as the sole entry point to our application, achieving encapsulation and used multithreading to allow the gateway to handle multiple requests, improving security and usability of the API
- Wrote maintainable and reusable JUnit tests for each microservice that ensured the correctness of the API