Joshua Fung

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EDUCATION

University of British Columbia 09/2021 – 12/2024 (expected)
Bachelor of Science (B.Sc.) in Computer Science *Vancouver, BC*

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, C/C++, SQL (PostgreSQL, MySQL), GraphQL, HTML/CSS, Swift

Frameworks: React, React Native, NodeJS, ExpressJS, NestJS, Django, JUnit, Material-UI, Jest, Hasura, SwiftUI

Developer Tools: Docker, AWS (S3, ECR, App Runner, Lambda, Step Function, Cloudwatch), Github Pipelines, Github Actions, Git, Expo, Twilio/Sendgrid, Postman, DBeaver, VSCode, PyCharm, IntelliJ, Eclipse

Libraries: Redux, Axios, Selenium, BeautifulSoup4, lxml, PrismaORM

Extracurriculars: UBC Hong Kong Student Association, CityReach Care Society, UBC Cooking Club, UBC Third World Eye Care Society, Volleyball Intramurals

EXPERIENCE

Full Stack Developer 09/2022 – 09/2023
BC Cancer with UBC Launchpad (Engineering Design Team) *Vancouver, BC*
- Developed a **lab management system web application** using React, ExpressJS, MySQL, and AWS
- Produced a highly customizable form builder with components for service request ticket submissions
- Utilized AWS S3 Buckets to allow for user file uploads within forms and admin file downloads for each ticket

Full Stack Software Engineer Co-op 01/2022 – 09/2022
Terramera *Vancouver, BC*
- Completed an **iOS and Android app** from scratch to MVP using React Native, Typescript, and PostgreSQL
- Improved Python scripts to run **60x faster** and leveraged AWS tools such as *AWS Lambda* and *Step Functions*
- Implemented authentication using Twilio and magic links to **reduce user login time by 40%**
- Developed soil lab internal tools using **Java** along with a REST API using **Spring Boot**

Embedded Developer 09/2021 – 04/2022
UBC AgroBot - Agroponics Subteam (Engineering Design Team) *Vancouver, BC*
- Created **remote system with real-time monitoring and control** using Raspberry Pi, Arduino, and Hass.io
- Helped to build and automate 3 hydroponic systems to be used across UBC Vancouver campus
- Established tech stack and led direction for multidisciplinary team of **5 members**

Computer Science Tutor 09/2021 – 09/2022
Geek Education (Geekedu) *Remote*
- Designed and produced **comprehensive programming lessons** to young learners, including Python and Java
- Simultaneously formulated and overlooked study plans for **6+ students** at a time to help foster their learning
- Wrote learning reports and goals following each lesson to track and encourage students' progress

PROJECTS

Reedr | *Typescript, React, Redux, ExpressJS, Github Actions, Docker, AWS ECR, AWS App Runner*
- Created a **responsive Hacker News alternative reader** for variety of device sizes
- Utilizes a **Github Actions CI/CD pipeline**, automating image management in AWS ECR and deployment in AWS App Runner
- Achieved an **84% reduction** in project size through Docker image optimization

MapleScrape | *Python, Django, Celery, RabbitMQ*
- Created Python and Django web application to display **5000+ GPU products** with search, filters, and pagination
- Wrote automatable Python script leveraging Selenium, BS4, and lxml to scrape Canadian tech retail sites
- Used Celery and RabbitMQ to schedule and execute asynchronous web scraping in minutes