Joshua Fung

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EDUCATION

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

Simon Fraser University – Beedie School of Business   Burnaby, BC
Bachelor of Business Administration (BBA)   *09/2020 – 08/2021*

EXPERIENCE

Full Stack Developer   09/2022 – Present
BC Cancer x UBC Launchpad   *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 – 08/2022
Terramera   *Vancouver, BC*
- Completed an iOS and Android app **from scratch to MVP** using Typescript, React Native, and PostgreSQL
- Improved Python scripts to run **60x faster** than initial runtime
- Implemented authentication using Twilio and magic links to **reduce user login time by 40%**
- Leveraged AWS tools such as AWS Step Functions and AWS Lambda to automate Python scripts

AgroPonic Team Software Lead   09/2021 – 09/2022
UBC AgroBot   *Vancouver, BC*
- **Led software team** to develop an autonomous system for 3 hydroponic systems to be used across UBC campus
- Formed development roadmaps and overlooked **5 team members** to ensure delivery of goals
- Created remote system with real-time monitoring and control using Raspberry Pi, Arduino, and Hass.io

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, **maintaining 100% uptime**
- 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

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, C/C++, SQL (PostgreSQL, MySQL), GraphQL, HTML/CSS
Frameworks: React, React Native, NodeJS, ExpressJS, NestJS, Django, JUnit, Material-UI, Jest, Hasura
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: Hong Kong Student Association, Union Gospel Mission, UBC Cooking Club, Volleyball Intramurals