MABEL KWOK

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EXPERIENCE

Software Developer, Jane Street Insight Program
Aug 2023 | New York, NY

Software Developer, Konrad Group
Jan 2022 - Apr 2022 | Toronto, ON
- Introduced a **React** component library for **17+** repositories to increase development and QA efficiency by **25%** using **JS, GraphQL, Storybook,** and **Figma** in a cross-functional agile team.
- Engineered an automated cron job logging system to reduce project maintenance by **20%** using **JS, TS, Express, TypeORM, MariaDB,** and **SQL.**

Portfolio Analytics Software Developer, TD
May 2021 - Aug 2021 | Toronto, ON
- Developed Asset Liability Setup and Target Management tools for TD Portfolio Analytics alongside Quantitative Analysts using **React/Redux, JS, Python,** and **SQL** to improve process flow for Portfolio Managers handling over **$139B** by **10%**.
- Enhanced the Linux Workstation Documentation to improve quarterly onboarding efficiency by **15%**.

Product Director, Software Developer, TOHacks
July 2019 - Present | Toronto, ON
- Directed the product team with strategy, product launches and metric tracking to impact **1k** hackathon participants with a QR code event tracking app made with **React** and **Firebase**.
- Introduced **DevOps** architecture with **CI** pipelines to save 104 hours yearly by increasing test coverage and execution frequency.
- Developed the official TOHacks website using **HTML, CSS,** and **JS** to expand outreach to **35** new countries and **16k** new viewers.
- Built an automated Q&A bot using **Google Cloud APIs** to reduce email inquiries by **30%.**

PROJECTS

Watonomous ○ 🔗
Jan 2022 - Present
- Hosted **distributed network storage** to have fast access to autonomous driving datasets for deep learning as an Infrastructure Engineer

Virtual Study Rooms ○
Apr 2021 - Oct 2021
- Led, designed, developed, and hosted on **AWS** a real-time video, voice, and messaging communication site using **React, NextJS, Express, MUI, Tailwind, MongoDB, GraphQL, Docker** and **Figma.**

ComposeAI ○ 🔗
Apr 2021 - Apr 2021
- Developed a machine learning model on a **React** site to compose music for a selected genre with LSTM Networks using **TensorFlow** and **Python.**

SKILLS

Programming:
Python, Java, React, JavaScript, TypeScript, C/C++, R, HTML/CSS, PHP, SQL, Node.js, Tailwind, GraphQL, AWS, Shell/Bash, Racket

Tools:
Git, Docker, MySQL, Jira, Bitbucket, Confluence, Office

EDUCATION

Bachelor of Computer Science and Business Administration
University of Waterloo
Sept 2020 - Apr 2024 | GPA: 4.0/4.0
- J. Wesley Graham National Scholarship Recipient ($18,000 scholarship for excellence in mathematics, computing and leadership)

RELEVANT COURSES
- Algorithm Design and Data Abstraction
- Designing Functional Programs
- Formal Verification
- Object-Oriented Software Development
- Introduction to Optimization

EXTRA CURRICULARS
- **Computer Science Club**: Program Committee Executive
- **@uwaterloocs, @todayskoreanfashion**: Founder, creating a community for 800+ CS students and 30k+ fashion enthusiasts
- **Ultimate Frisbee:** UW Varsity member

ACHIEVEMENTS
- **2021** BDO New Venture Semi-Finalist
- **2019** 2x Hackathon Winner (ECOdingHacks, Call of Data)
- **2018** EcoSchools Platinum Project
- **2016-2018** CEMC Math Contest Distinctions (top 25% of contestants)
- **2009-2016** RCM Piano Completion