Amy Peng
SOFTWARE DEVELOPER *Open to Positions for Fall 2022*

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EDUCATION

University of Toronto   *Sept. 2018 - May. 2023*
HONOURS B.SC. COMPUTER SCIENCE, STATISTICS, MATHEMATICS
- (3.83/4.0 cGPA) Data Structures, Algorithms, Databases, Machine Learning, Statistics, Linear Algebra, Regression Analysis

SKILLS

Languages   Python, Golang, Java, C, SQL, JavaScript, TypeScript, Gherkin, R, MatLab
Technologies   Django, ReactJS, PostgreSQL, Cypress, ArgoCD, Firebase, Postman, Jupyter, Figma, AdobeXD, Git

EXPERIENCE

Index Exchange   *Toronto, Canada*
BACKEND ENGINEER INTERN   *May. 2022 - Present*
- Refactored several API endpoints to follow the **clean architecture style**, which allows for code readability and scalabilty.
- Took initiative to introduce and set up **Gherkin** BDD tests using the **Godog** framework to facilitate collaboration and a common understanding of the tests being run between business users and engineers.
- Added **Prometheus** alerting to monitor error response levels of endpoints in testing, staging and production environments.

Security Compass   *Toronto, Canada*
SOFTWARE ENGINEER INTERN   *May. 2021 - May. 2022*
- Developed a new customizable component feature to improve agile workflow and code reusability in customers' codebase.
- Responsibilities include adding new models to **PostgreSQL**, creating backend APIs in **Django**, and redesigning frontend components in **ReactJS**. Took initiative to **add detailed technical API documentation** currently used by engineers.
- Reduced regression testing cycle time from weeks to 2 days by implementing automation scripts using **CypressJS** to perform unit tests. **Total automation coverage increased by 40% to date.**

PROJECTS

Scotiabank Global Payments   *Sept. 2019 - Dec. 2019*
- Created a mobile app using Interac's "Request-to-Pay" feature for businesses to reduce overhead costs during delivery.
- Built the MVP in Android Studio using **Java**, and created backend services in **Python** with a REST-ful architecture.
- Hosted the app on **Google Cloud Platform**. Used **Firebase** for user authentication and real time data modifications.

Two-X Virtual Campus 🔗   *Sept. 2020 - Dec. 2020*
- Mocked up a user-tested prototype of a mobile app using **Figma** and **Adobe Premiere** that transforms the online classroom experience into an immersive virtual campus that promotes interaction and collaboration between its participants.
- Presented to industry experts (IBM, Facebook). **Won 1st place out of 30 teams** in a design competition.

Systolic Blood Pressure Prediction Model 🔗   *Nov. 2021 - Present*
- Constructed a multiple regression model by analyzing several potential predictors of SBP by going through the steps of data cleaning, model building (stepAIC, polynomial), model selection, validation, and diagnostics in **R Studio**.

ACHIEVEMENTS

2019 - 21   **UofT Dean's List Scholar,** Academic Merit
2018   **Nova Scotia Queen Elizabeth II Medal,** Community Involvement, Leadership, Academic Merit
2017   **Nova Scotia Lieutenant Governor's Award,** Community Involvement, Leadership