Andrew Yiwen Xu

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PROFILE

Self driven and highly motivated software engineer experienced in developing full stack applications across all project phases including Agile and Waterfall methodologies.

SKILLS

Languages/Frameworks:
Python (Django), Java (Grails, Kotlin), JS (React, Redux), Grails, C, C++, Jest, GraphQL, Apollo, MongoDB, SQL, HTML/CSS

Software/Tools:
Git, Bash, Linux, Kubernetes, Docker, SonarQube, Altair, BloomRPC, SQLWorkbench, JIRA, Bitbucket

EDUCATION

University of Waterloo   09/2020 – 04/2025
3A Computational Mathematics (BMath Honours)
Relevant Courses: C++ and OOP, Data Types and Structures, Statistics, Linear Algebra
Extracurriculars: Formula SAE, Intramural Basketball, Rock Climbing Club

EXPERIENCE

Favorite Medium   02/2023 – present
Software Developer
- Current software development intern building an audio player SDK using **Java (Kotlin)** and the **AudioEngine** API for the TuneIn app.

Achievers Inc   05/2022 – 08/2022
Software Engineer - Binary Experience
- Revamped platform notifications **microservice** on the backend using **Python (Django)** to modernize and improve the accessibility of the notifications interface for clients.
  - Led discussions and design of **gRPC endpoints** to create a minimum viable product.
  - Built a new **REST**ful service for push notifications enabling over **8000+ users** across **33 enterprise customers** to manage user interactions efficiently.
- Integrated event logs for syncing user emails from the company service to the **Iterable API**.
  - Implemented checks to rollback outdated API requests to ensure users are receiving information at the correct email address and made user data table to be **ACID compliant**.
  - **Reverted over 40 faulty requests** since the feature's deployment.
- Maintained a **SQL** database by normalizing the data schema, preventing potential breaking changes.
- Inherited responsibility for onboarding and mentored new interns which **resulted in a 10% increase in overall sprint velocity**.

Exponet Canada Inc   09/2021 – 12/2021
Full-Stack Developer
- Incorporated **6 complete front-to-back features** for a logistics management application, utilizing **React Redux w/Sagas, Java (Grails framework), and Mongo Compass** accordingly.
- Used the **Amazon MWS** API to enable a wide range of package modification options within the application, including fetching, rating, voiding, and printing shipping labels for orders via Amazon.com.
- Built a feature to generate a customs form for international shipments using the **PDFBox** API, leveraging information from automated presets for products and user input.
- Enhanced inventory data by dynamically updating stock through an **aggregation of over 5000+ items.**

PROJECTS

Biquadris
- Created a rendition of the game Tetris with **C++**, using MVC design patterns and **object-oriented** programming fundamentals (encapsulation, inheritance).