Philips Xu

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A philipsxu.me

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SKILLS

Languages TypeScript, JavaScript, Python, Go, Dart, Java, C++

Frontend React, Redux, Next.js, HTML, CSS, React Native, Flutter, Android Studio **Backend** Express, Node.js, Flask, GraphQL, MongoDB, MySQL, Docker, AWS, Firebase

EXPERIENCE

Wish / Software Engineer Intern

Sep 2021 - Dec 2021 / Toronto, ON

- · Integrated code coverage data generation for 800+ unit tests into CI pipeline for SonarQube coverage analysis
- · Implemented address verification feature for new location microservice using Go
- · Prepared microservice for production by setting up tools to monitor service health using Grafana & Prometheus
- $\cdot \ \, \text{Utilized} \, \textbf{\underline{JMeter}} \, \text{to perform load testing and analyze service latency} \, \& \, \text{throughput on address verification endpoint} \, \\$

UW Blueprint / Software Developer

May 2021 - Jan 2021 / Waterloo, ON

PlanetRead

- · Built and launched a React web platform with a team of 7 developers for an NPO to support translation program
- · Implemented various end-to-end user flows and fixed bugs using React, Chakra UI & Apollo Client
- · Developed features and GraphQL endpoints on Flask & SQLAlchemy backend, including cursor-based pagination
- · Configured Digital Ocean droplet and continuous integration pipeline to serve Flask app using uWSGI & NGINX

Pregnancy Centre

- · Developed and launched a React web platform serving 700+ users for an NPO to support donation program
- · Streamlined admin experience by implementing donation-matching flow using TypeScript & Apollo Client
- · Designed and implemented MongoDB schemas and GraphQL resolvers using Apollo Server on Node.js backend

Dagamma Inc. / Software Developer Intern

Jan 2021 - Apr 2021 / Toronto, ON

- · Created and launched a React Native mobile application on Android & iOS, acquiring 2000+ users on release
- · Served over 6000 recordings by implementing audio recording module using native Android & iOS APIs
- Eliminated over 90% of bugs and improved app maintainability by refactoring verbose logic across 30+ React
 Native components & re-architecting client state management using Redux
- · Spearheaded the initial development of a patient-management web platform using Next.js, Redux & TypeScript

PROJECTS

Foodprint | Personal Project

Mar 2020

Flutter, Dart, Express, TypeScript, Heroku, PostgreSQL, AWS S3

- · Built and designed a cross-platform Flutter mobile application with Dart for personal food journaling
- · Implemented backend Express REST API and JWT authentication service from scratch using TypeScript, featuring custom token verification and refresh token generation + revocation logic
- Designed the relational PostgreSQL database schema and persisted user photos using AWS S3
- · Applied **Domain-Driven Design** practices by implementing self-validating data objects and abstracting data access logic using the **Repository** pattern

EDUCATION

University of Waterloo

Sep 2019 - Apr 2024 (Expected)

Bachelor of Computer Science, 3rd Year

· Courses: Object-Oriented Programming (Enriched), Data Structures and Data Management