

Philips Xu

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SKILLS

Languages TypeScript, JavaScript, Python, Dart, Java, C++
Frontend React, Redux, Next.js, HTML, CSS, React Native, Flutter, Android Studio
Backend Express, Node.js, Flask, GraphQL, MongoDB, PostgreSQL, Docker, AWS, Firebase

EXPERIENCE

Wish / Software Engineer Intern Sep 2021 – Present / Toronto, ON

- Configured a Gitlab job using parallel instances to generate unit-test code coverage data for SonarQube analysis
- Developing external API tooling and services using **Golang** and **Python** to support merchants and other users

UW Blueprint / Software Developer, PlanetRead Sep 2021 – Present / Waterloo, ON

- Building a story translation platform using **React**, **Flask** & **MySQL** for an NPO fostering children's literacy

UW Blueprint / Software Developer, Pregnancy Centre May 2021 – Aug 2021 / Waterloo, ON

- Developed and launched an open-source, **React**-based web donation platform for an NPO serving **700+** users
- Streamlined admin experience by implementing donation matching workflow 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+** mobile fetal heart sound recordings by implementing audio recording UI component using native **Android** & **iOS** APIs, along with a **JavaScript** module interface for cross-platform compatibility
- Eliminated over **90%** of functional & visual bugs and improved app maintainability by refactoring verbose logic across **30+ React Native** components & re-architecting client state management using **Redux**
- Spearheaded the development of a remote patient-monitoring web platform by identifying technical requirements and building the entire frontend using **Next.js**, **Redux** & **TypeScript**

PROJECTS

Gitalk 🌐 | Hack the North 2020++ Jan 2021

Express, Node.js, JavaScript, React, VoiceFlow, CockroachDB, Heroku

- Utilized **Voiceflow** to build a voice application that automates Git actions through authenticated verbal commands
- Engineered custom authentication system using **Express**, **Octokit**, & **Sendgrid API**, enabling secure email delivery and user-friendly verbal GitHub authentication
- Designed the database schema using **Sequelize ORM** & configured the **CockroachDB** cloud cluster

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**

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