Philips Xu

📞 (647) 283-8867   ✉ y584xu@uwaterloo.ca   🏠 philipsxu.me   ⌥ puepis   in philips-xu

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 **Go** and **Python** to support merchants and other users

UW Blueprint / Software Developer   May 2021 – Present / Waterloo, ON

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

Pregnancy Centre
· 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+** recordings by implementing audio recording module using native **Android** & **iOS** APIs
· 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