Yifei Xu

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▸ SKILLS

Languages : Python, C++, C, TypeScript/JavaScript, Perl, Shellscript, SQL, Dart
Tools/Frameworks : Git, Flask, Django, Node.js, SQLite, MongoDB, Docker, Svelte, React, React Native, ROS, Flutter, HTML, CSS, Bootstrap, Jira, Confluence, Figma, Kafka, Hadoop, ZooKeeper

▸ EXPERIENCE

Robotics Software Intern   Oct 2022 – Apr 2023
Rapyuta Robotics   Tokyo, JP

- Maintained CI/CD pipeline, debugging all issues during integration and deployment of distributed robotics system
- Invented custom image-processing algorithm utilizing *pixelmatch* to do automated testing of HTML canvas graphics
- Expanded e2e-test and integration-test coverage to cover new features and further edge cases

Full-stack Engineer   Jan 2022 – Apr 2022
Move With Fleet   (Remote) Toronto, ON

- Built frontend React components for administrative HR platform and employee analytics according to Figma specifications
- Built cross-platform React Native mobile app to manage geophysical trips and basic profile data, implemented appropriate accompanying backend logic

ASIC Development Assistant   Sept 2019 – Dec 2019
Huawei   Ottawa, ON

- Built Flask app to parse disorganized build-logs into user-friendly data visualizations
- Offered live support in Mandarin to oversea offices in order to setup the app in high-security environments
- Wrote reusable Python scripts to parse data from poorly-formatted text files into organized SQLite tables

Electrical Team Leader   Oct 2018 – Apr 2020
WatLock   Waterloo, ON

- Designed Linux application to manage data flow from multiple sensors and mechanical parts to central server for a Mars airlock
- Serving as Electrical Team Leader, delegating research and build tasks among team members, and organizing regular team meetings
- Recruited new team members and managed day-to-day executive tasks

▸ PROJECTS

osulist.com (sunsetted)

- Built a CRUD web app for easy creation and sharing of custom *osu!* rhythm game assets using Flask and MongoDB
- 24/7 up-time, served with Nginx and Gunicorn on a personal DigitalOcean droplet
- Designed a simple yet information-dense UI to streamline site navigation experience (inspired by Hacker News)

▸ EDUCATION

University of Waterloo   Sept 2018 – Present
Computer Engineering, 2023 Candidate for B.ASc