

# HARRY XU

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## Education

### University Of Toronto

Anticipated Completion: May 2025

Honours BSc in Statistics & Computer Science & Mathematics

Toronto, Ontario

- President, UofT Web Development Club (Sept 2023 - Present)
- Project Lead, UofT Web Development Club (Sept 2021 - Aug 2023)

## Experience

### DevOps Engineer Intern | Intact Financial Corporation | Toronto, ON

Jan 2024 - Present

- Improved **Jenkins CI/CD**, **infrastructure as code**, and reduced operational costs by containerizing agents onto **OpenShift** using **shell** and **Docker**. Parameterized **Jenkinsfiles** allowing for agent and tooling specification in a **Jenkins.properties** file reducing build time by 40% and build failures by 50%
- Developed a **Python** script using the **Kubernetes client package** for automated deployment and containerization of a **Hashicorp Vault** instance on **OpenShift** and introduced Vault to the Jenkins Infrastructure
- Setup **NexusIQ** and **Polaris by Synopsys** scans after the build stage of the Jenkins pipeline scripts for 137 services resulting in an average 30% increase in catching new third-party dependency and **OWASP** top 10 vulnerabilities
- Introduced **Kubernetes Horizontal Pod Autoscaling** feature to services within the PERF testing environment on **OpenShift**, reducing CPU utilization spikes by 40%

### Software Developer Intern | Intact Financial Corporation | Toronto, ON

May 2023 - Dec 2023

- Automated monthly releases with a **Jenkins pipeline** and **Python's PyGithub library**, creating release branches for 53 services with changed components and modifying their release versions, sending results to an internal endpoint and increasing integrator efficiency by over 80% by converting 8 hours of monthly work to under 1 hour
- Automated a **Jenkins pipeline** for deleting stale branches with **Javascript** using **Axios** and **GraphQL** for **GitHub Issues** to notifications and **MongoDB** for deletion records. Removed 900 branches within 7 months improving overall **CI/CD** processes across repositories by 35%
- Developed a gating mechanism to block daily **Jenkins pipeline** service promotions from DEV to INTG based on vulnerability counts from **Prisma Cloud** and **Synopsys** reports, scraped using **Selenium**. Enhanced security by 75% by blocking an average of 15 promotions per monthly release
- Developed a **Python algorithm** with a **Jenkins pipeline** to find missing **SQL** scripts between the production branch and 2 or 3 release branches depending on the release month. Caught and alerted 1-5 missing files daily, reducing environment instability caused by missing **SQL** scripts by 100%

### Software Engineer Freelance | Kontech Insights, Project: Human City, Sustainable Life App

Nov 2022 - June 2023

- Developed a filter for user profiles using **Velo API** and **JavaScript** on Wix providing clients with more efficient navigation for obtaining users that satisfy their requirements
- Partnered with CTO to conduct 12 user interviews regarding SaaS platform ease of use
- Implemented user feed, user profile, and search & explore mobile screens in **React Native**
- Modelled a flowchart for a mobile application using **Moqups & Figma**, designing a hierarchy with application entities
- Resolved 94 compiler errors in an **AngularJS** and **Ionic** stack, addressing syntax, dependencies, and runtime issues

## Technical Skills

**Languages:** HTML, CSS, Javascript, Typescript, Python, Ruby, Java, Groovy, R, C, C++, SQL, GraphQL

**Frameworks:** NextJS, Angular, Ionic, React Native, Flask, Django, NodeJS, IaC

**Developer Tools:** Jira, Confluence, Jenkins, Synopsys, Dynatrace, Sonarqube, Hashicorp Vault, Nexus Repository, NexusIQ, Red Hat OpenShift, Kubernetes, Docker, Git, Postman, MongoDB, PostgreSQL, Redis, Figma, Android Studio, VS Code, PyCharm, IntelliJ

**Libraries:** React, Axios, Requests, Supabase, Bootstrap, MaterialUI, PyGithub, Tableau

## Projects

### VLR.gg Scraping API | *Python, BeautifulSoup, Requests* | [harry-xu.netlify.app/](https://harry-xu.netlify.app/)

Jan 2023

- Developed a web scrapping API for the Valorant e-sports coverage site, VLR.gg
- API returns structure json objects including player, match, and team statistics that can be found on the site

### Livestream Lytics | *React, Flask, Supabase, PostgreSQL*

Nov 2022

- Developed a web application using ReactJS and Flask to study livestream chat data given a Youtube or Twitch link
- Developed a backend algorithm to find "X" most duplicate messages sent in chat