

# Han Le

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## Education

### York University

May 2023

Bachelor of Science in Computer Science

## Experience

### Software Developer, York University SCS – Toronto, ON

July 2023 – Present

- Designed and developed a **Python** program that automatically deploy **GCP Compute** virtual machine image by interacting with **Google Cloud Compute Engine** concurrently, actively serving **60** students and teachers
- Created an **Azure Automation runbook** running **PowerShell** to start/stop VM machines within a resource group while being inactive, resulting in an anticipated cost reduction of over **\$2000** monthly
- Built and maintained **3+ Python** ETL scripts to collecting reports data and load to **SQL Server**, with automated scheduling using Windows Task Scheduler
- Wrote multiple Ad Hoc SQL queries using **SQL Server** to generate reports for cross-team presentation

### Full Stack Engineer, Tesoract Inc – Toronto, ON

Apr 2023 – Present

- Facilitated the design and development of multiple pages including both frontend functionalities and backend API handlers to introduce new features using **Next.js**, **Amazon S3** and **JavaScript**
- Designed and implemented user authentication solution with **NextAuth.js** and **MongoDB** to reroute third parties user information, provide necessary information in user session, and check for user permission
- Conducted API testings in **Postman** and website performance with **Google Lighthouse**, created **E2E testing** specs using **Cypress**
- Implemented backend server-side CRUD operations between the application and **Amazon S3** including secured pre-signed url for files viewing

### Software Developer Intern, York University SCS – Toronto, ON

May 2021 – Apr 2023

- Automated report retrieval from QLess using **Python**, extracting and formatting data into Excel before uploading to **SQL Server**
- Developed a **Python** and **Selenium** web scraping script for Acceptance Testing, comparing website AI responses with database data, uncovering key data quality inconsistent issues for training purposes
- Enhanced a **Bash** script to handle version conflicts between local database applications and **Debian** OS version, ensuring an up-to-date system for Big Data course teaching materials

## Projects

### Personal Website

Jan 2023 – Present

- Developed a one-page portfolio website using **Next.js** and **TypeScript** for both backend and frontend
- Implemented **CI/CD** pipelines using **GitHub Actions** to automate the build and deployment on Vercel

### User Management Browser Extension

Oct 2022 – Dec 2022

- Designed and implemented various frontend functionalities to enable bulk user selection within a user management system handling 500+ staff members, utilizing **JavaScript** and **JQuery**
- Conducted user research and gathered requirements to formulate project plans, aligning development timelines with the expected software delivery date

## Skills

**Languages:** JavaScript, TypeScript, HTML, CSS, Bash, PowerShell, Java, Python, SQL, PHP, C

**Frameworks:** React.js, Next.js, Cypress, jQuery, Selenium, Tailwind CSS

**Other:** Node.js, Cypress, PostgreSQL, MongoDB, MySQL, Postman, Google Lighthouse, SQL Server, Azure, GCP, Amazon S3, Kubernetes, Docker, JUnit, Git