

Han Le

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github.com/hanle23

Education

York University – Bachelor of Science in Computer Science

May 2023

Experience

Software Developer, York University SCS – Toronto, ON

July 2023 – Present

- Designed and developed a Python program to provision, configure, and monitor Google Cloud Platform Debian-based virtual machines used by 60 daily clients
- Conducted touchscreen kiosk application functional tests and improved user satisfaction by 35%
- Created an Azure Automation for workflow that led to a 30% reduction in monthly operational costs
- Developed 4 Python ETL pipelines implementing batch processing to load daily reports to SQL Server
- Improved website visuals by adding new UI features to the browser extension for the staff system

Full Stack Engineer (Freelance), Tesoract – Toronto, ON

Apr 2023 – Present

- Developed multiple full-stack pages, introducing new features using Next.js, Amazon S3, and JavaScript
- Created REST APIs with JavaScript for users to upload, modify, and download files from Amazon S3
- Implemented a user authentication flow using NextAuth.js and MongoDB to manage user permissions
- Conducted API tests in Postman to evaluate endpoint accuracy and created E2E tests using Cypress

Software Developer Intern, York University SCS – Toronto, ON

May 2021 – Apr 2023

- Refactored a Bash script into a Python script to deploy virtual machines on the Google Cloud Platform using Cloud SDK, wrote component tests with 95% coverage using the Python unit test library
- Authored a Python automated script to pull appointment meeting reports on QLess, transforming JSON data into an Excel table format before posting it on the SQL Server
- Built a Python script to scrape website data with Selenium, generating daily reports on data consistency
- Improved a system Bash script by adding an OS version conflicts handler and a system stability reporter

Projects

Infrastructure Deployment

github.com/hanle23/Infrastructure-Deployment

- Developed a Python program to provision, configure, and monitor Google Cloud Platform VMs
- Reduced 20 weekly staff hours by implementing an automated communication flow

User Management Browser Extension

github.com/alfredmjz/SV-Workflow-Extension

- Designed and implemented a bulk user selection extension for a system handling 500+ staff members
- Conducted user research and gathered requirements to prepare project plans for project evaluation

Password Manager

github.com/hanle23/password_manager

- Developed a Python terminal application for managing user credentials and creating secure passwords
- Implemented password storage using SHA-256 hashing and a private key unique to each user

Skills

Languages: JavaScript, TypeScript, HTML, CSS, Java, Python, SQL

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

Development Tools: Postman, Lighthouse, SQL Server, Azure, GCP, Amazon S3, Docker, Git