Han Le

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Education

York University – BS in Computer Science   May 2023

Experience

Full-Stack Engineer (Part-time), Tesoract – Toronto, ON   Apr 2023 – Present

- Designed and implemented RBAC system by refactoring the database to a parent-child model, creating graph lookup logic with DFS/BFS for access management, enabling role assignment and access control
- Implemented an invitation system that generating and send out temporary links while storing active invitation within MongoDB to streamline onboarding process by directing users to an invitations control page
- Built a file manager system that handles file conversion and uploads in Base64 format to Amazon S3, generating time-limited signed URLs with permission checking for secure file sharing and storage
- Developed the front-end with reusable UI components, incorporating Suspense and Skeleton for loading states and SWR for auto revalidation and caching to improve data accuracy
- Advocated for the adoption of the Cypress testing library by creating a demo testing suite, conducting a competitive analysis, and successfully pitch to improve code reliability and reduce debugging time

Software Technical Support (Part-time), York University SCS – Toronto, ON   July 2023 – Present

- Developed an ETL in Python to dynamically fetch URLs, parse 400+ daily Qless appointment logs, format the data stream, and upload entries to a Microsoft SQL database for report creation
- Automated form handling for a WordPress site using Power Automate to process Gravity Form submissions, create actionable items in SharePoint, and improve system autonomy while reducing staff effort
- Developed a room finder that uses a Greedy Algorithm to find available room which enabling the IT team to reschedule classes during hardware failures
- Refactored a kiosk web application's front-end by externalizing inline CSS, replacing platform-specific styles, and implement lazy loading for embedded website using JQuery
- Mentored interns by handling onboarding process, addressing code base questions, and assigning tasks

Desktop Support Assistant (Part-time), York University SCS – Toronto, ON   May 2021 – Apr 2023

- Built a provisioning tool with Google Cloud SDK and Python to auto-deploy custom Debian OS virtual machines for class participants, reducing weekly workload by 15 hours
- Developed a feature for an internal Chrome extension that injects multi-selection tools into the staff website, incorporating data validation and chain requests, benefiting 60+ users

Projects

Orches - Spotify Playlist Optimizer

- Developed a playlist optimizer web application using Next.js and TypeScript, employing Euclidean distance to recommend playlist placement for saved songs
- Configured a CI/CD pipeline using GitHub Actions to automatically check for dependency issues, deploy the main branch to Vercel, and optimize bundle size with Bundle Analyzer

Consultarer   https://consultarer.com/

- Developed the front-end for the settings and payment information page using TypeScript, creating reusable components such as navigation tools, charts, and data selectors

Skills

Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, SQL
Technologies: Next.js, React.js, Node.js, Cypress, Tailwind CSS, jQuery
Software: MongoDB, Postman, SQL Server, Azure, GCP, AWS, Docker, Git