Kevin Yang

Toronto, Ontario | kev4238@gmail.com | (437)-242-2383 | Personal Website Link

linkedin.com/in/kevin-yang-23102a222 | github.com/kevyang267 | Canadian Citizen

Education

University of Western Ontario, HSP in Computer Science, Minor in Software
Engineering
<div align="right">Sept 2019 – Aug 2024</div>

- GPA: 3.7/4.0
- **Awards:** Dean's Honors Roll

Technologies

Languages: Java, Python, C++, C, C#, SQL, JavaScript/TypeScript, CSS, HTML, Bash scripting

Technologies: PlayWright, Selenium, Serenity, JUnit5, Node, React, Angular, Express, Vite, .NET, Flask, Microsoft SQL Server, MySQL, Postgres, Redis, Electron, Linux (WSL, Ubuntu)

Certificates: Z Xplore Concepts (IBM), Z Xplore Advanced (IBM), JUnit 5 (Udemy), Playwright + JavaScript (Udemy), OWASP Top 10 (Udemy)

Experience

Application Developer Engineer, ComputerTalk – Markham, ON
<div align="right">Curr</div>

- Developed and maintained a secure, high-performance web service using C# and SQL to support financial transactions with providers like TD Bambora, Exact, and Trust Commerce
- Developed secure web services to access institution APIs, allowing clients to access and modify their banking accounts and credentials through an IVR system
- Actively developing standardization of a web application using Angular to facilitate easier deployments and improve functionality
- Aided deployment and testing of standard CRM integrations such as Dynamics and SalesForce
- Collaborated with cross-functional teams, including product managers and QA, to develop and deploy customized application builds
- Upgraded major enterprise clients to new software releases, ensuring smooth transitions with minimal downtime on live servers
- Led the modernization of a test automation suite, significantly improving test coverage and reliability for short-cycle product releases, and decreasing testing time by 50% through parallelism
- Implemented new TypeScript-based features for customer-specific builds, ensuring seamless application configuration and deployments
- Spearheaded secure data transfer between Microsoft SQL clusters, creating robust Python automation scripts to reduce testing time from 30 minutes to 5 minutes using popular libraries like Pygame
- Conducted code reviews and mentored junior automation engineers to enforce coding standards and best practices
- Authored internal best-practice documentation and maintained a detailed changelog for automation updates
- Built a desktop tool using Electron to streamline DTMF character entry, improving operation efficiency for the QA team
- Tools Used: C#, .NET, SQL, TypeScript (PlayWright, Node), Python, SQL, Electron (CSS, HTML, Electron Builder), Angular

Automation Analyst Engineer, J.D. Power – London, ON
<div align="right">May 2022 – Aug 2023</div>

- Lead an agile, greenfield automation initiative to build testing infrastructure from scratch, improving overall test coverage from 0% to ~90%
- Automated end-to-end tests for a complex application interfacing with over 40 REST APIs and multiple relational databases (Microsoft SQL and MySQL)
- Collaborated with developers during feature implementation to identify edge cases and ensure quality releases
- Supported the design and maintenance of GitLab CI/CD pipelines for regression testing and production deployment
- Actively participated in code and feature review sessions to uphold standards of quality and maintainability in

code
- Recognized as "Star QA Intern" for domain expertise and substantial contributions to the testing framework
- Helped mentor and onboard a junior automation engineer joining the project
- Tools Used: Java (Jackson, Serenity, Selenium, Cucumber), TypeScript (PlayWright), SQL

Projects

FOEChatBot
- Partnered with the University of Western Ontario's Faculty of Education to automate FAQ handling via an intelligent chatbot
- Implemented string-matching algorithms to deliver relevant responses and reduce the need for manual staff intervention
- Reviewed, refined, and updated question-and-answer pairs provided by the FOE to optimize performance and ensure maximum accuracy
- Stored student information to provide insightful custom reports for statistical analysis, with data such as access date, questions asked, and satisfactory rate
- Used cookies to store session tokens to reload a user's previous entry into the application
- Created SQL database schemas to allow for strict data storage between tables as the data storage and SQL leader
- Developed express RESTFUL endpoints as an interface between React frontend and MySQL backend to allow for speedy access, delete, and update methods
- Tools Used: JavaScript, Express, Node.js, MySQL, Vite, React, CSS, HTML

ChordBoard   github link
- Developed a Windows desktop application to visualize a variety of musical instruments
- Utilized the singleton design pattern to ensure creation of a singular instance
- Created custom components in QT Creator to allow for input manipulation
- Takes user input on the instrument, and generates a string of chords that may sound good together using music theory
- Includes popular instruments like the piano, drums, flute, trumpet, etc
- Tools Used: C++, QT, QT Creator

GoContract   github link
- Built a web service to allow contractors to list their services, which users can book
- integrated user authentication with role-based access control and secure password hashing in DB2
- Enabled contractors to generate invoices and manage availability, while users could book services through a calendar interface
- Deployed on IBM Cloud with DB2 for high availability and uptime
- Developed custom invoices page with react hooks to deliver and persist data between different pages of the website
- Tools Used: React, Node.js, IBM Cloud/DB2, HTML, CSS