Kevin Yang

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https://www.linkedin.com/in/kevin-yang-23102a222/ Portfolio Website

EDUCATION

University of Western Ontario, London, Ontario
Honors Specialization in Computer Science & Minor in Software Engineering   *Sept 2019 - Aug 2024*

- cGPA: 3.7/4.0
- 5x Deans Honors List
- Related courses: Software Architecture, Project Management, Networking, Network Security, Internet Algorithms, Distributed Computing, Compiler Design

SKILLS

- **Programming/Scripting Languages:** *Java, Python, C, C++, Assembly, SQL (PostGres, Redis, MySQL, django), JavaScript/TypeScript, CSS, HTML, Bash, LaTex, R*
- **Frameworks/Libraries:** *React, JUnit5, Serenity BDD, Node..JS, Playwright, Flask, Regex, QT, Selenium, Cucumber, PyCryptodome, FasterXML/Jackson, gRPC, Express, Vite, Next.js, numPy, pandas*
- **Developer Tools:** *GIT, Unix/Linux, VS Code, IntelliJ, Eclipse, Rancher, Postman, MySQL Workbench, Figma, Gradle, Maven, IBM Cloud, IBM DB2, Jira, Android Studio, QT Creator, Apache, Qt Design Studio, Azure DevOPs*

EXPERIENCE

Automation Analyst Engineer
J.D. Power, London, Ontario, May 2022 - August 2023 | **Java, Serenity, Selenium, SQL, TypeScript**

- Pushed to introduce automation to the project and collaborated with an automation expert to deploy an **automation suite** using Java and Serenity to **test and validate** the complete functionality of an internal full stack product.
- Utilized tools to **automate manual testing** through UI testing of over **5 pages**, micro-service testing of over **40 REST endpoints**, and verification of data stores in a Microsoft SQL Server and **2 MySQL instances**. Also responsible for testing the system's **ETL**.
- Responsible for performing regression testing to validate new product versions through GitHub's enterprise CI/CD.
- Improved automation coverage by over **90%** through manual test automation.
- Aided in the **configuration** and **setup** of the PlayWright testing suite by transferring **20** test cases.
- Awarded **QA Star Intern** for outstanding contributions to the automation suite and project as a whole as an **SME**.

Application Automation Engineer
ComputerTalk, Markham, Ontario, August 2024 - December 2024 | **TypeScript, PlayWright, Python, SQL, Azure**

- Responsible for manual and automated testing of customer-facing IVR, ACD, and CTI applications.
- Took control of **PlayWright** automated testing suite to add additional features such as **login cookie caching**, **Excel sheet manipulation**, **photo resizing/compression**, and **telephony API services** testing.
- Lead sFTP testing by automating **folder, file, and ZIP generation** testing, alongside **data querying** between SQL instances.
- Improved customer chat testing through YAML using **Azure pipelines**.

PROJECTS

FOEChatBot
Faculty of Education (UWO) | **JavaScript, Express, Node.JS, MySQL, Vite, React, CSS, HTML**

- Worked with the Faculty of Education to **improve their workflow** by automating potential inquiries from students.
- Storing and analyzing data in MySQL to provide **improved metrics** to help the Faculty of Education with identifying trends.
- Used a **fuzzy search algorithm** to match words in queries with Q&A pairs.
- Acted as the database expert and worked with **MySQL**, creating REST APIs utilizing **Express and Node.JS**.
- Contributed to the front-end by creating components in React using HTML and pure CSS.

Chord Consistent Hashing Visualizer
University of Western Ontario | **Python, Redis, tkinter, grpc**

- Created a visualizer for the **chord consistent hashing algorithm** in Python using the tkinter UI library.
- Used **grpc** to allow a primary and secondary backup client server to communicate with a storage server using a **redis** store.
- Followed the distributed heartbeat protocol by having the primary and secondary servers receive heartbeats to ensure they are online and active.
- tkinter used to display the ring and display the location of items stored in the ring by the primary and backup servers.

GoContract
University of Western Ontario | **React, Node.JS, IBM Cloud, IBM DB2, HTML, CSS**

- Created a **full stack web application** that provides services to multiple users and contractors, primarily allowing users to book services from contractors and for contractors to provide invoices to their users.
- Utilized **IBM Cloud** for program deployment and **IBM DB2** to securely store hashed user and contractor details.
- Created **Restful API endpoints** to allow creation and deletion of invoice data.
- Aided in the storing and retrieving of user data securely by encoding in AES.

ChordBoard
University of Western Ontario | **C++, QT, QT Creator**

- Created a **Windows application** that allows users to experiment with numerous instruments and **recommends notes** that may sound good with the inputted sequence.
- Users can play around with **5** different instruments, each with their own unique input methods.
- Followed **object-oriented programming methodologies** by creating prototypes for instruments and inheriting the appropriate methods.