Kevin Yang

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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
- Deans Honors List
- Related courses: Intro to Networking, Network Security, Internet Algorithms, Distributed Computing, Software Architecture, Intro to Project Management

SKILLS

- **Programming/Scripting Languages:** *Java, Python, C, C++, Assembly, SQL (PostGres, Redis, MySQL, django), R, JavaScript/TypeScript, CSS, HTML, Bash, Prolog, Scheme, LaTex, Julia, Cilk, QML*
- **Frameworks/Libraries:** *React, JUnit5, Serenity BDD, Node.JS, Playwright, Flask, Regex, QT, Selenium, Cucumber, PyCryptodome, FasterXML/Jackson, gRPC, Express, Vite, Next.js*
- **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*

EXPERIENCE

Automation Analyst Engineer Intern
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 **35 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.
- Awarded **QA Star Intern** for outstanding contributions to the automation suite and project as a whole.

PROJECTS

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.
- 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.

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

- Working with the Faculty of Education to **improve their workflow** by automating potential inquiries from students.
- Creating a full-stack project to address questions and answers through a **chat bot**.
- Storing and analyzing data in MySQL to provide **improved metrics** to help the Faculty of Education with identifying trends.

- Looking to utilize basic **machine learning** to improve language and keyword recognition to generate better answers in context.
- Acted as the database expert and worked with **MySQL**, creating REST APIs utilizing **Express and Node.JS**.

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.

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.
- Uses basic music theory to analyze what is inputted and what chord progressions would sound good.

HOBBIES

- Learning photography and exploring editing tools; **Website Showcase** | *PhotoShop, Gimp, SnapSeed*
- Learning and exploring video editing tools | *DiVinci Resolve 18*