YU YANG (KENNY) CHEN

Seeking Summer 2024 Internship

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Education

University of Toronto Scarborough   **September 2020 – December 2024**
Bachelor of Science in Computer Science, Specialist in Software Engineering with Co-op   *Toronto, ON*

Relevant Coursework: Data Structures, Algorithms Analysis, Software Methodology, Software Architecture, Operating Systems, Computer Architecture, Database Management

Work Experience

TheScore Media and Gaming, Inc.   **May 2022 – December 2022**
QA Automation Engineer Co-op   *Toronto, ON*

- Designed and implemented automated QA test scripts using Kotlin, leveraging Appium and JUnit, to streamline testing processes for mobile applications on Android and iOS platforms.
- Pioneered the integration of automation into web application test suites using Selenium Webdriver in Kotlin, enhancing test efficiency and automation coverage of base functionality by 20%, including all smoke test suites.
- Collaborated with other teams to better understand requirements for automation scripts, leading to improved software reliability, and reduced manual testing efforts.
- Reported and monitored automation test results via Jenkins, updated deprecated test cases based on the application's state, facilitated collaboration between development and QA teams using Jira, and provided stakeholders with updates on automation metrics during release meetings.

Projects

Fitbook | *TypeScript, MongoDB, NoSQL, React Native, Express, iOS, Android*   **May 2023 – October 2023**

- Conceptualized and designed a full-stack Android and iOS mobile application enabling users to efficiently log, monitor, and share their workout routines, progress metrics, and personal achievements.
- Collaborated dynamically with a team to execute the project in iterative sprints, aligning with Agile methodologies.
- Created an intuitive, user-oriented UI in React Native.
- Structured backend logic using Express and MongoDB database to efficiently manage non-relational user data, workout routines, and progress metrics.
- Incorporated user-generated content via posting to allow users to publish their workouts, promoting mutual motivation and community engagement through healthy competition.
- Implemented MVC design patterns for the software's architecture, ensuring a modular full-stack environment.

InvestoBot | *Python, Firebase RTDB*   **December 2021 – January 2022**

- Created a Discord Bot using Python, simulating stock trading based on real-time market data sourced from Yahoo Finance's public API.
- Integrated Firebase as a dynamic backend solution to manage and track Discord user data, including simulated account balances, stock holdings, and transaction history.
- Leveraged asynchronous programming using the Discord API to ensure smooth and rapid response times for user requests, providing a seamless trading experience.

Linux System Monitoring Tool | *C, Linux*   **January 2023 – February 2023**

- Leveraged C libraries for Linux Ubuntu environments to implement a program that delivers real-time system information directly to the terminal, including system diagnostics, CPU consumption, memory utilization, active user sessions, and file system data (subject to permission constraints).

PintOS Operating System | *C*   **May 2023 – August 2023**

- Designed and implemented operating system features such as multithreaded synchronization, user program execution, extensible file systems, and demand-paging virtual memory in the Pintos Operating System, leveraging advanced OS algorithms for page replacement, buffer caching, and synchronization.

Technical Skills

Languages: Python, Java, Kotlin, C, JavaScript, TypeScript, Bash
Developer Tools: VS Code, Eclipse, Android Studio, PyCharm, IntelliJ
Technologies/Frameworks: Linux, Git, React Native, Express.js, postgreSQL, MongoDB, Jenkins, JUnit, Appium, Selenium