

# Rui Tang

## Profile

Recent B.Tech graduate with a strong foundation in software development and testing, committed to delivering high-quality software solutions. My experience spans the entire software development life cycle, including requirement analysis, design, implementation, testing, deployment, and maintenance. I excel in creating detailed test strategies and plans to ensure software reliability, functionality, and performance, utilizing various testing methodologies and tools to detect defects and foster continuous improvement. Keen to stay abreast of the latest technologies and best practices, I am passionate about leveraging innovation to exceed client expectations. My problem-solving skills, combined with a collaborative spirit and excellent communication abilities, make me a valuable team player poised to contribute effectively to challenging projects.

## Education

### Information Technology, Kwantlen Polytechnic University, Surrey

MAY 2017 – FEBRUARY 2024

Recent graduated with B.Tech Bachelor's degree

## Internships

### Software Development Engineer in Test, Copperleaf Technologies, Vancouver

JANUARY 2023 – AUGUST 2023

- Orchestrated the monitoring and maintenance of the software pipeline with Azure DevOps, ensuring uninterrupted delivery of high quality software releases and the smooth functioning of testing process.
- Spearheaded efforts to enhance pipeline reliability by meticulously documenting daily pipeline statuses and swiftly addressing issues such as flaky tests, leading to improved overall efficiency and productivity.
- Played a pivotal role in optimizing the pipeline's responsiveness to browser updates by proficiently adding and updating features and configuration using YAML, thereby minimizing downtime and ensuring seamless compatibility.
- Led the transition from Selenium to Cypress for automation testing, significantly improving testing efficiency and accuracy
- Managed the creation and execution of comprehensive testing strategies encompassing unit, regression, and integration testing using c#, JavaScript, and TypeScript, ensuring robust software quality and reliability.
- Collaborated closely with the CloudOps team to establish new server branches, streamlining deployment processes and enhancing scalability.

### Software Development Engineer in Test, Global Relay, Vancouver

JANUARY 2022 – AUGUST 2022

- Vigilantly monitored the Jenkins pipeline, ensuring its smooth operation and timely execution of software builds and deployments, thereby enhancing overall project efficiency.
- Demonstrated proficiency in test case creation and execution, meticulously performing unit, regression, and integration testing to validate software functionality and reliability.

## Details

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## NATIONALITY

Canadian

## Links

[LinkedIn Profile](#)

[GitHub Profile](#)

## Core Competencies

Software QA | Web Development  
| Test Planning | Test Automation  
| Defect Tracking | Test  
Case Development | Agile  
Methodologies | Continuous  
Integration | Code Review | SDLC  
| Programming | Debugging |  
Problem-solving | Team Player |  
Result-driven

## Skills

Azure DevOps  
C++  
Confluence  
Cypress  
Git  
HTML & CSS  
Java/C#  
JavaScript/TypeScript  
Jira  
Next.js  
Node.js  
Python  
React  
Selenium/Espresso  
SQL  
TestRail  
YAML

- Proactively contributed to automation testing efforts by creating and refining test cases, maintaining the test suite, and leveraging automation tools to streamline testing processes and improve overall test coverage.
- Actively participated in print tasks, diligently raising and closing bug tickets via Jira to facilitate efficient issue resolution and project progress tracking.
- Effectively showcased newly implemented features internally through engaging and informative demonstrations, fostering team collaboration and ensuring alignment with project goals and stakeholder expectations.

## Professional/Academic Projects

### Mobile Game Resource Planner, TypeScript, Next.js

JANUARY 2024 – PRESENT

- [GitHub Link](#)
- Engineered a responsive landing page with theme control, enhancing user engagement and brand consistency.
- Currently spearheading the development of a robust database schema for user login functionality, prioritizing security and scalability to meet evolving needs.

### Gym Application, HTML, TypeScript, Next.js

DECEMBER 2023 – PRESENT

- [GitHub Link](#)
- Collaborated with a colleague on a joint project, leveraging complementary skills and expertise to deliver a high-quality landing page solution.
- Engineered a visually appealing landing page utilizing HTML, CSS, and SCSS with Bootstrap, resulting in improved aesthetics and user experience.
- Orchestrated the transition from a plain HTML application to a more sophisticated T3 application, enhancing functionality and scalability to meet evolving project requirements.
- Currently leading the transformation of landing page sections into React components, leveraging the power of Tailwind CSS to streamline development and enhance maintainability

### Smart Home Mobile Application, Prototype, Figma

NOVEMBER 2023 – DECEMBER 2023

- [Figma Demo Link](#)
- Innovatively designed and iterated two distinct user interfaces for a smart home application using Figma, focusing on usability and aesthetic appeal to enhance the user experience.
- Conducted comprehensive market research and user surveys to integrate user feedback into the design process, resulting in interfaces that facilitate easy management of home devices and promote energy efficiency.
- Utilized Figma's robust design features to prototype interactive elements and transitions, ensuring intuitive navigation and minimizing the risk of user error, which was evidenced by positive survey feedback.

### Search Engine for Short Videos, Python

OCTOBER 2023 – DECEMBER 2023

- [GitHub Link](#)
- Developed a video analysis application integrating Ultralytics' YOLOv8 and OpenCV for object detection in video frames.
- Implemented audio transcription and keyword extraction using Google Speech Recognition and KeyBERT, converting audio tracks to searchable text.
- Created a searchable index of extracted video data (transcriptions, object labels, keywords) using the Whoosh Python library.

- Designed a CLI for efficient querying of indexed data, supporting complex search functionalities.
- Optimized for scalability and efficiency, handling extensive video data and facilitating rapid search and retrieval operations.

## Smart Garbage Management System IoT, Python

OCTOBER 2022 – DECEMBER 2023

- [GitHub Link](#)
- Engineered a cutting-edge Raspberry Pi-based smart garbage management system utilizing Python, revolutionizing waste management practices through real-time capacity monitoring of garbage bins with ultrasonic sensors.
- Devised and implemented an efficient notification system employing Discord webhooks to automatically alert administrators upon garbage bins reaching 80% capacity, optimizing waste collection schedules and resource allocation.
- Seamlessly integrated hardware components, including ultrasonic sensors and LEDs, with Python scripting to develop a highly responsive and user-friendly waste classification and alert system, enhancing operational efficiency and reducing environmental impact.

## Other projects

### Mocha-Trx-Reporter Test Name Fix, JavaScript

JULY 2023 – AUGUST 2023

[GitHub Link](#)

### Hotel Reservation Application, Java

JUNE 2021 – JULY 2021

[GitHub Link](#)

### Event Organizer Application, Kotlin/Java

MARCH 2021 – MAY 2021

[GitHub Link](#)

## Courses

### Full-Stack JavaScript Developer Professional Certificate, IBM

JANUARY 2024 – PRESENT

### Software Testing and Automation Specialization, University of Minnesota

JANUARY 2024 – PRESENT

## References

References available upon request