Andy Ruan

SOFTWARE ENGINEER

Vancouver, BC, Canada

☐ (+1) 604-839-2539 | ✉ andy-ruan@outlook.com | in a-ruan

Skills

Languages	TypeScript, C#, Java, JavaScript, HTML + CSS, Solr, SQL
Frameworks	Angular, .NET (ASP, Razor), NodeJS, Redux, Jest, Protractor
Tools	Git, IIS, AWS (S3, CloudFront, EC2), Jenkins, Ansible

Work Experience

Dodge Construction Network · *Vancouver, Canada*

SOFTWARE ENGINEER · ANGULAR(TYPESCRIPT), .NET(C#) · *Feb. 2020 - Jan. 2024*

- Implement major parts of an automated email scrapping system, utilizing a scheduler and lambda processes to aggregate and store data.
- Enhance overall security of our web application by implementing content security policy and investigating avenues for injection attacks.
- Rebuilt legacy ASP.NET MVC product with Angular front-end to reduce server load and decrease application load times by 90%.
- Isolated business logic from MVC-controllers and exposed them under new RESTful APIs to better support client-sided web development.
- Spearheaded front-end architecture of construction data platform to support 12+ developers over 3 teams in writing efficient code, reducing overall code review time by 50%.
- Upgraded CI/CD development process with Git hooks and SonarQube to maintain passing unit tests, consistent branch names and commit messages, and perform code quality analysis automatically.
- Mentored contractor teams to identify code smells and design pitfalls in order to maintain best practices and reduce technical debt.

JUNIOR QUALITY ENGINEER · PROTRACTOR(TYPESCRIPT), KARATE(JAVA) · *Nov. 2018 - Dec. 2019*

- Automated end-to-end and API test cases with Protractor in TypeScript and Karate in Java to drastically speed up regression analysis.
- Refactored larger portions of automation code base written by multiple team members to reduce code duplication and increase maintainability.
- Performed root cause analysis on defects by tracing application dataflow, enabling more detailed logging and reducing the debugging effort on developers.
- Designed efficient test cases based on user stories and requirements to create a streamlined and effective acceptance testing environment.
- Managed, mentored, and performed test case and automation code reviews for our QA team to lead our software test lifecycle.
- Participated in progress meetings to ensure well integrated processes between development and QA teams.

Volunteer Experience

Penguin Robotics · *Vancouver, Canada*

TOURNAMENT OPERATIONS · *Sept. 2018 - PRESENT*

- Faciliated various VEX Robotics tournaments across Metro Vancouver by coordinating IT setup and control efforts.
- Performed on-the-spot troubleshooting of technical defects to enable smooth tournament operations.

Education

University of British Columbia · *Vancouver, Canada*

BACHELOR OF APPLIED SCIENCE WITH DISTINCTION IN COMPUTER ENGINEERING · *Sept. 2014 - May 2018*