

Andy Ruan

SOFTWARE ENGINEER

Vancouver, BC, Canada

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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 - PRESENT

- 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

TECH COORDINATOR

Sept. 2018 - PRESENT

- Facilitated various VEX Robotics tournaments across Metro Vancouver by coordinating IT setup and control efforts

Education

University of British Columbia

Vancouver, Canada

BACHELOR OF APPLIED SCIENCE WITH DISTINCTION IN COMPUTER ENGINEERING

Sept. 2014 - May 2018