

# Andy Ruan

SOFTWARE ENGINEER

Vancouver, BC, Canada

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

## Skills

<b>Languages</b>	TypeScript, C#, Java, JavaScript, HTML + CSS, Solr, SQL
<b>Frameworks</b>	Angular, .NET (ASP, Razor), NodeJS, Redux, Jest, Protractor
<b>Tools</b>	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

TOURNAMENT OPERATIONS

Sept. 2018 - PRESENT

- Facilitated 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