

SOFTWARE ENGINEER

Vancouver, BC, Canada

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

Skills

Languages TypeScript, JavaScript, C#, Java, HTML + CSS, SQL, Solr, Python

Frameworks Angular, .NET (ASP, Razor), Redux, Jest, Protractor

Tools Git, NodeJS, IIS, AWS (S3, CloudFront, EC2), Jenkins, Ansible

Work Experience _

Dodge Construction Network

Vancouver, Canada

SOFTWARE ENGINEER · ANGULAR(TYPESCRIPT), .NET(C#)

Feb. 2020 - Jan. 2024

- Spearheaded front-end architecture of construction data platform to support 12+ developers over 3 teams in writing clean and efficient code, improving productivity and reducing feature development time.
- Implemented major parts of an automated email scraping system, utilizing asynchronous processes such as schedulers and lambdas to aggregate and store data.
- Overhauled our HTML to PDF service by replacing previous rendering library with in-house solution, improving export times and reducing compute resource cost.
- Designed developed, and documented APIs utilizing .NET framework to communicate with various back-end services and facilitate features on the front-end.
- Refined stories and planned sprints as part of a scrum team, contributing to consistency between upcoming features and existing requirements.
- Enhanced overall security of our web applications 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 client-application load times.
- · Isolated business logic from MVC-controllers and exposed them under new RESTful APIs to better support client-sided web development.
- 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 juniors and 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.

Projects

${\tt JACQUIETATTOOS.COM\cdot NEXTJS(REACT, TYPESCRIPT, NODE)}$

May. 2024 - Current

- Developed a tattooing portfolio website used to display work and initiate bookings.
- Integrated Instagram Basic API to fetch and display work as part of albums in a gallery.
- $\bullet \ \ \text{Implemented reCAPTCHA} \ \text{and form validation in order to reduce likelihood of booking form submission abuse}.$
- Utilized various Google Cloud services to display maps, log booking form submissions, upload reference pictures, and fetch items for purchase.
- Created API endpoints to incorporate scheduling infrastructure webhooks and update availability of purchasable items.

Volunteer Experience _____

Penguin Robotics

Vancouver, Canada

TOURNAMENT OPERATIONS

Sept. 2018 - Current

- 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