

Tianyu Zhou

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Education

Simon Fraser University	B.Sc. in Computing Science, 3.80 GPA	Sep.2020 - Aug. 2024
University of British Columbia	B.Sc. in Wood Science, 3.75 GPA	Sep.2013 - Jun.2016

Technical Skills

- Languages: C/C++, Java, JavaScript, Python, SQL, HTML5, CSS3
- Frameworks and Libraries: React, Node.js, Spring Boot, Pandas, Numpy
- Tools: Git, Linux, Postman, Wireshark, Selenium, AWS (Amplify, EC2, Lambda, DynamoDB), Docker, K8s, Slurm

Experience

Test Automation Engineer (co-op)	<i>Vecima Networks, Burnaby, BC</i>	<i>Jan 2023-Dec 2023</i>
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- Created tests in a team of 4, recognized for great performance with an extended internship invitation.
- Initiated an automation testing project for the company's new platform using the JavaScript-based tool Sahi Pro. Set milestones for each phase to make sure the project always aligns with the goals.
- Actively engaged with the development team to gather feedback, and iteratively refined test scripts based on their suggestions to make sure the project met the established benchmarks.
- Transformed frequent device replacement tests from manual to automated, reducing 90% of testing time.
- Effectively distributed test flows logically to multiple threads to improve the concurrency of test execution.
- Applied Postman to API testing and uncovered issues hidden in our APIs.

Software Test Engineer (co-op)	<i>Gatekeeper Systems, Abbotsford, BC</i>	<i>Jan. 2022-Aug.2022</i>
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- Collaborated in a 3-person team to conduct regression testing on DVR firmware, effectively caught more than 50% of the total bugs in that release, and conducted comprehensive cross-checking on different devices and platforms.
- Introduced the Wireshark tool from school to the work projects, to analyze the packets between the server and the connected devices, resulting in the discovery and resolution of one long-lasting major bug.
- Drafted the automation test scripts for testing the company's new health-checking tool using Selenium, and continually set milestones to upgrade the scripts to cover 100% of the main features before the end of my internship.
- Created scripts to automatically read unexpected IP addresses from DVR firmware files to eliminate security threats.
- Delivered high-impact presentations of test results to the QA team and product managers, and contributed to the strategic decision-making for launching new products to customers.

CNC Programmer and CAD Drafter	<i>Swiftsure Milling and Molding, Surrey, BC</i>	<i>Mar. 2017 – Aug 2020</i>
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- Programmed a 3-axis CNC router using Mastercam to accurately process raw wood materials to dimensions.
- Drafted and finalized customer drawings using AutoCAD.
- Utilized VBA programming to develop macros for project management Excel worksheets, automating the calculation of win and loss metrics across departments and each manufacturing step.

Projects

Note'n'Quiz	<i>Simon Fraser University, Burnaby, BC</i>	<i>Jan 2024 – Apr 2024</i>
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- Collaborated with a team of 3 to design, develop, and deploy an application on AWS for creating notes and generating quiz. Led the whole project thoroughly by setting up weekly milestones and following up the progress.
- Developed all backend services using Nodejs and assisted in writing frontend using React to meet the deadline.
- Designed and configured a load balancer on AWS Amplify to ensure that requests coming from different regions fetch the instance replica by IP zones, which increases the availability and avoids single point of failures.
- Deployed the application on AWS Lambda and split the application into loosely coupled microservices with replicas to increase the availability and scalability.