

Molly Zhang

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Software Developer with a year of hands-on experience in postal service sector supporting a primary operator in Canada. Attended the automated testing, troubleshooting and deployment of new releases for a POS system utilized by over 3000 locations nationwide. Possessed expertise in developing backend services and web applications with a commitment to continuous learning and self-improvement.

SIGNATURE STRENGTHS

- Front End Development
- REST API Design and Implement
- Source Code Management
- Back End Development
- Database design and Implement
- Cross-Functional Collaboration
- Object-Oriented programming
- DevOps Operations
- Problem-solving and debugging

CAREER HIGHLIGHTS

- Designed, developed, and deployed 4 web applications utilizing Java, MERN (MongoDB, Express.js, React.js, Node.js), Angular and LAMP (Linux, Apache, MySQL, PHP) stack technologies.
- Completed a dormant testing automation project and integrated it into regression testing, reducing the total testing time by **60%**.
- Resolved 3 production issues and created 2 alerts to detect similar problems on Azure, rising a potential bottleneck of the system.

PROFESSIONAL EXPERIENCE

Canada Post, Ottawa, ON

May - August 2023

DevOps Engineer

- Collaboratively deployed and troubleshoot Canada Post's Retail POS application to Azure, utilizing Agile methodologies and Infrastructure-as-Code (IaC) approaches.
- Maintained Ansible playbooks with Jenkins CI/CD pipelines using version control tool Bitbucket, and orchestrated daily builds deployment within an Azure SaaS environment.
- Engaged in proactive problem-solving with team members to address production issues and enhance system reliability and performance.
- Maintained environments detail overview pages and created documentations for resolved issues on Confluence, ensuring up-to-date deployment version information is available for co-workers.

Canada Post, Ottawa, ON

January - April 2023

Automation Testing Engineer

- Integrated a dormant testing automation project into regression testing for Canada Post's Retail POS application.
- Conducted 3 rounds of automated testing, resulting in a **60%** reduction in total testing time.
- Completed 2 production releases, performing regression testing, end to end testing and compatibility testing.
- Reviewed test results, identify bugs, and collaborate with the development team to resolve issues.

Algonquin College, Ottawa, ON

September 2022 – December 2022

Peer tutor

- Provided guidance and instruction on concepts already delivered in classes for Java (OOP), SQL and Database Systems, GNU/Linux and Web Development for students.

EDUCATION

Algonquin College, Computer Programming, Diploma, Ottawa, ON, 2023

- GPA: 3.8/4.0

SKILLS

- Back End Development: Java, Spring MVC, Spring Boot, MockMVC, Spring TestContext, J2EE, Hibernate, JDBC, JPA, JSF, JUnit, JBoss, Tomcat, Maven, Swagger, Node.js, Express.js, C++, C# PHP, RESTful API, Design Patterns
- Front End Development: HTML/XML, CSS, JavaScript, TypeScript, SOAP, YAML, JSON, React/Redux, Angular/NgRx, Webpack
- Scripting Languages: BASH, Python
- SQL/NoSQL Databases: MySQL, Postgres, Oracle, DB2, MongoDB, GraphQL
- Version Control Tools: Git, GitHub, Bitbucket
- Cloud Platforms: Azure, AWS, Digital Ocean
- Web services: NGINX, Apache HTTP Server
- Development Methodology: Agile (Kanban, Scrum)
- CI/CD Tools and Configuration Management: Jenkins, GitHub Actions, Ansible
- Containerization: Docker
- Collaboration Tools: Jira, Confluence, Microsoft Teams
- Operating Systems: Unix, MacOS, Windows
- IDE and Editors: Eclipse, IntelliJ, Visual Studio Code, XCode, Vim

PROJECTS

ActiveTO REST API

September 2023

www.mollyzhang.dev/apps/activeto/api/swagger-ui

- Developed a REST API server that allows Torontonians to search and sort all active drop-in activities at City of Toronto's recreation centres using Spring Boot, providing read-only services with 15 http endpoints to search available drop-in activities in JSON format. Unit tested with MockMVC and integration tested with Spring TestContext Framework.
- Developed a Python script that gets current active drop-in activities, recreation centres and their locations from Toronto Opendata API and designed a MySQL database schema for storing processed data.
- Containerized with Docker and deployed to a Linux web hosting service provider Digital Ocean.
- Created a [documentation](#) for the project, including the architecture of API, database schema and CI/CD pipeline.

ActiveTO Web

July 2024

www.mollyzhang.dev/apps/activeto

- Developed a web application built on Active REST API, allowing users to easily find activities at City of Toronto Recreation Facilities.
- Integrated Google Maps for directions to facility locations. Utilized Angular, Redux, Node.js, HTML and CSS.
- Created a [documentation](#) for the project, including component architecture and CI/CD pipeline.

Expenses Recorder

June 2022

www.mollyzhang.dev/apps/expense recorder

- Developed a user-friendly single-page application tailored for daily expense tracking and implemented sorting and engineered a robust RESTful API utilizing Node.js and Express.js, facilitating CRUD operations with MongoDB Atlas.

youShop

August 2022

www.mollyzhang.dev/apps/youshop/index.php

- Developed an intuitive electronic goods shopping web application equipped with robust customer personal information management and order tracking functionalities. Utilized HTML, CSS, JavaScript, PHP and MySQL.

Travel Expense Tracker

August 2023

- Developed a command-line program in C++ to track travel expenses.
- Implemented CRUD operations using MySQL for data management.