

MOLLY DONGYUE 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

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|-------------------------------|---------------------------------|----------------------------------|
| • Front End Development | • REST API Design and Implement | • Application Deployment |
| • Back End Development | • Database design and Implement | • Source Code Management |
| • Object-Oriented programming | • Automation Testing | • Cross-Functional Collaboration |
| • Scripting | • 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

Innovapost, 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.

Innovapost, 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.
- Assisted with 2 production releases, ensuring product quality and performance.

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

Northwestern A&F University, Biotechnology, Bachelor's degree, China, 2014

SKILLS

- Back End Development: Java, Spring (MVC), Spring Boot, J2EE, Hibernate, JPA, JSF, Junit, JBoss, Tomcat, Maven, Swagger, Node.js, Express.js, C++, PHP, RESTful API, Design Patterns
- Front End Development: HTML/XML, CSS, JavaScript, SOAP, YAML, JSON, TypeScript, React/Redux, Angular.js, Webpack
- Scripting Languages: BASH, Python
- SQL/NoSQL Databases: JDBC, MySQL, Postgres, Oracle, DB2, MongoDB, GraphQL
- Source Code Management Version Control: Git, GitHub, Bitbucket
- Cloud Platforms: Azure, AWS, DigitalOcean
- 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: Linux, MacOS, Windows
- IDE and Editors: Eclipse, IntelliJ, Visual Studio Code, XCode, Vim

PROJECTS

ActiveTO

September 2023

www.mollyzhang.dev/apps/activeto

- 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. Tested functionalities using Junit.
- 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 DigitalOcean.

Active

July 2024

www.mollyzhang.dev/apps/active

- Developed a web application for browsing drop-in activities at City of Ottawa Recreation Facilities. Utilized Angular, Node.js.

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.