

# MOLLY ZHANG

---

(343) 988-0024 • mollyzhangdev@gmail.com

LinkedIn: [Molly Zhang](#) • GitHub: [Molly Zhang](#) • Portfolio: [mollyzhang.dev](#)

**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, J2EE, Hibernate, JDBC, JPA, JSF, JUnit, JBoss, Tomcat, Maven, Swagger, Node.js, Express.js, C++, PHP, RESTful API, Design Patterns
- Front End Development: HTML/XML, CSS, JavaScript, TypeScript, SOAP, YAML, JSON, React/Redux, Angular, Webpack
- Scripting Languages: BASH, Python
- SQL/NoSQL Databases: MySQL, Postgres, Oracle, DB2, MongoDB, GraphQL
- Source Code Management Version Control: Git, GitHub, Bitbucket
- Cloud Platforms: Azure, AWS, Digital Ocean
- 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](http://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.

### **ActiveTO Web**

*July 2024*

[www.mollyzhang.dev/apps/activeto](http://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.

### **Expenses Recorder**

*June 2022*

[www.mollyzhang.dev/apps/expenserecorder](http://www.mollyzhang.dev/apps/expenserecorder)

- 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](http://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.