# MOLLY DONGYUE ZHANG

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## CAREER PROFILE

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.

Core competencies include Front End Development, Back End Development, REST API Design and Implement, Database design and Implement, Automation Testing, DevOps Operations, Source Code Management. Multilingual, with fluency in English, Chinese (Mandarin).

## CAREER HIGHLIGHTS

- Designed, developed, and deployed 3 web applications utilizing Java, MERN (MongoDB, Express.js, React.js, Node.js), 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                                                    *January -August 2023*

An IT shared-service provider that supports Canada Post's day-to-day IT operational services.

### DevOps Engineer

- Troubleshot and deployed for Canada Post's Retail POS application to Azure Infrastructure-as-Code environment using Agile methodologies.
- Maintained Ansible playbooks with Jenkins CI/CD pipelines using version control Bitbucket, and orchestrated daily builds deployment within an Azure SaaS environment.
- Resolved 3 production issues and created 2 alerts to detect similar problems on Azure, rising an unexpected issue irrelevant to previous ones; the team addressed it as a potential bottleneck of the system.
- Maintained 2 environments detail overview page and created 3 documentations for resolved issues on Confluence, ensuring up-to-date deployment version information is available for co-workers.

### 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, GUL/Linux and Web Development for students.

## EDUCATION

***Algonquin College, Computer Programming, Diploma,*** Ottawa, ON, 2023
- GPA: 3.8/4.0
- Completed coursework: Java (OOP), Database Systems, GUL/Linux, Web Development, Networking, Android, Project Management

## SKILLS

- Proficient in programming language like Java, JavaScript, PHP, C++ and Python
- Proficient in database technologies like MySQL, PostgreSQL, MongoDB and GraphQL
- Proficient in working within a Linux environment
- Experience with Git and GitHub for source code management and version control
- Experience with RESTful API design and Implementation
- Experience with CI/CD pipelines like Ansible, Jenkins and GitHub actions
- Experience with could platforms like Azure and AWS
- Experience with containerization technologies like Docker
- Strong problem-solving skills and attention to detail
- Ability to write clean and scalable code

## PROJECTS

### ActiveTO                                                    *September 2023*
- 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 by categories/types/facilities (recreation centres) in JSON format.
- 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.
- Tested functionalities using Junit.
- Containerized with Docker and deployed to a Linux web hosting service provider DigitalOcean.

### Expenses Recorder                                            *June 2022*
- Developed a user-friendly responsive single-page application tailored for daily expense tracking and implemented sorting and filtering features by 5 options, alongside deletion capabilities using React.
- Engineered a robust RESTful API utilizing Node.js and Express.js, facilitating CRUD operations with MongoDB Atlas.

### YouShop                                                      *August 2022*
- 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.