

Jay Patel

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EDUCATION

Bachelor of Mathematics, University of Waterloo, ON

September 2020 – Present

Specialization in Computational Mathematics

- **Relevant Courses:** Algorithm Design and Data Abstraction and Object-Oriented Software Development.

EXPERIENCE

DevOps Engineer Intern

September 2022 – December 2022

Canvass AI

Toronto, ON.

- Monitored the **infrastructures** using Datadog monitoring and assisted in **managing** user accesses in Azure.
- Developed new and updated existing CircleCI and Nginx configuration files for the applications.
- Built and managed 20+ **deployments, pods, and services** in the Kubernetes clusters in Azure using Docker, Docker-compose, Nginx, CircleCI, and Helm.
- Deployed Timescale DB in the Kubernetes clusters using Helm charts, Azure, and PostgreSQL.
- Collaborated with various teams to implement a **deployment strategy plan** that improved efficiency by 40%.
- Implemented 3 new **namespaces** for the **Kubernetes** clusters using Azure, PostgreSQL, Helm, Nginx, and Auth0.

DevOps Engineer

January 2022 – April 2022

Assent

Ottawa, ON.

- Diagnosed and resolved technical or functional issues in a complex environment in a timely manner.
- Implemented methods and tools to **automate the environments** in which the company provides services.
- Assisted in **designing and developing** high quality, scalable tools that **automate day-to-day operations** for the engineering teams and decrease the deployment time by 30%.
- Operated with various tools and technologies such as Dot Net, C#, JavaScript, Groovy, PowerShell, Bash, SQL, AWS Services, Ansible, Docker, Jenkins, and JFrog Artifactory.
- Collaborated with development teams to design and implement software that aligns with the **DevOps practices**.
- **Automated** the creation of a dashboard using AWS services, which allows for the tracking of all environments and resulted in a 50% increase in efficiency and time savings.

API Integration Developer

May 2021 – August 2021

Fidacity Realty

Ottawa, ON.

- Managed the development and maintenance of over 15 APIs and **architected new integrations** to APIs.
- Engaged with the lead developer to support existing API integrations that need updates/troubleshooting. The protocols involved included SOAP, XML, REST, JSON, SQL, HTTP, and OAuth.
- Contributed to the **front-end and back-end development** of the website by utilizing a range of technologies including PHP Laravel, HTML, CSS, Vue JS, Node JS, JavaScript, AWS EC2, MySQL, Linux, and Docker.
- Investigated and analyzed existing SQL datasets to identify the cause of issues and resolving the issues.
- **Identified and fixed bugs** to resolve technical issues with the API application using Linux Command Line.

PROJECTS

Investment and Stock Tracker

- Created the project to keep track of the personal investments and obtain knowledge about SQL database and Java.
- Formalized an SQL database and created a Java application that interconnects with the database.
- The application enables users to track investments made by individuals within an organization and monitor the performance of those stocks within the organization.

Social Media Website

- Incorporated features such as account sign-up, log in/log out, Send/accept friend requests, and Posting to the feed.
- Implemented HTML, CSS, Django, Python, Firebase Authentication, and REST APIs to design the website.
- Developed a website within a 48-hour time frame and gained valuable experience in project management.

SKILLS

Software Development – Java, JavaScript, C#, Dot Net, Groovy, PowerShell, Bash, Racket, C Programming, C++, Helm Charts, PostgreSQL, Nginx, and Python.

Web Development – HTML, CSS, Node JS, PHP Laravel 8, Bootstrap, React JS, and REST APIs.

Tools – MySQL Database, Linux, Docker, CircleCI, RStudio, AWS Services (Elastic Beanstalk, Lambda, CodeBuild, and CodePipeline), Azure Portal, Ansible, Auth0, Jenkins, Kubernetes, Datadog Monitoring, and JFrog Artifactory.

Transferrable Skills – Communication, Teamwork, Problem-solving, Creativity, and Adaptability.

Interests - Artificial Intelligence, Algorithms, Machine Learning, Cryptography, Data Science, and Stock Trading.