

# FEVIN PATEL

Toronto, ON

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*I'm a results-oriented software developer with a track record of developing impactful software solutions. Awarded for leadership and quality in programming competitions, I specialize in full-stack development and agile methodologies and am dedicated to continuous professional development and keeping up with industry trends.*

## WORK EXPERIENCE

### Jr. Technical Analyst (Co-op)

Ministry Of Transportation, Ontario

September 2022 – April 2023

- Implemented Agile solution delivery methodologies to analyze, develop, and test projects in alignment with business requirements, culminating in a 6% improvement in project delivery
- Enhanced and tested web applications with AODA and alongside implementing industry-standard test practices
- Developed automation scripts using Selenium and Java for web-app testing and implemented Postman API for testing API endpoints according to project requirements
- Utilized Azure DevOps for creating and testing test cases, as well as logging defects and managing software development lifecycle
- Improved version control through GitLab, ensuring adherence to SDLC and DevOps practices

## ACADEMIC & PERSONAL PROJECTS

### Maple Nest | [Demo](#)

- Developed AI and Machine Learning powered web platform that helps students find apartments to rent easier in Canada
- Implemented backend with Python, JavaScript, Node.js, and Azure (including Automated ML and Cosmos DB) for accurate rental price predictions and integrated Google Maps API for travel time calculations
- Added prompt-engineered chatbot utilizing OpenAI's ChatGPT 3.5 model for conversational assistance on questions related to the selected region only
- Built frontend using Typescript, React, Tailwind CSS, using Material UI and 18next (for multilingual interface)

### Smart Park, A parking finder app

- Engineered a Parking Finder app with the help of MERN stack (MongoDB, Express.js, React.js, Node.js) as a capstone project.
- Integrated Google Maps API for real-time parking info, enhancing user experience and location visualization.
- Accomplished secure user authentication for easy sign-up, login, and booking with data protection using JWTs and applied REST APIs over the application for secure information exchange
- Integrated payment gateway for secure transactions, improving overall user experience. Collaborated on GitHub for efficient project management.

### Fragments Microservice

- Designed and implemented a scalable, cloud-based microservice using AWS (EC2, ECS) and Node.js, showcasing expertise in IaaS, containerization with Docker, with Test driven development writing unit tests using Jest
- Spearheaded the automation of CI/CD pipelines through GitHub Actions, significantly improving efficiency in Docker image building, tagging, and pushing workflows
- Used Docker Compose for multi-container orchestration, facilitating local development and AWS service simulation via an app running on the AWS Load balancer
- Integrated AWS services (S3, DynamoDB) with Infrastructure as Code (IaC) & CloudFormation, implementing robust authentication and security mechanisms with Amazon Cognito and GitHub secrets

## Info Forge

- Developed a web application incorporating web-scraping, content consolidation, and exploration features sourced from diverse platforms.
- Streamlined the project setup with clear instructions for local deployment and testing, ensuring an efficient and user-friendly onboarding process.
- Utilized Python libraries, specifically Requests and BeautifulSoup, for effective content processing and filtering. Additionally, employed Flask to host the web application within the local environment and SQLite3
- Achieved successful deployment of the web application, demonstrating proficiency in content management and web technologies.

## EXTRACURRICULAR EXPERIENCE

### Vice President

*Seneca Student Federation (SSF)*

*April 2023 – present*

- Served as a liaison between students and Seneca College in the role of Vice President at Seneca Student Federation, effectively addressing and resolving a spectrum of student concerns and issues encompassing both academic and non-academic realms
- Led campus goals aligned with the SSF plan, Board of Director's directives, and budget, collaborating with the Manager and the Campus Operations team
- Promoted diversity through student engagement, event planning, and support for student council activities

## EDUCATION

### Advanced Diploma in Computer Programmer Analysis

*Seneca College*

*May 2021 – December 2023*

- **GPA** - 3.8 out of 4.00
- Data Structures & Algorithms, Agile Software Development, DevOps, Full Stack Development, Mobile Application Development (iOS), Web Application Development, Applied Data Science, Object-Oriented Software Development Using C++ & Java, Database Management, Cloud Computing for programmers, Software Testing fundamentals

## TECHNICAL SKILLS

- **Programming Languages:** Java, C, C++, JavaScript, Python, Swift
- **Web Technologies and Frameworks:** HTML5 (DOM), CSS, Bootstrap, GraphQL, XML, JSON, MongoDB, Express, React.js, Node.js, Angular.js, REST APIs, API Design and Development, Spring
- **Databases:** Oracle SQL Server, MongoDB (NoSQL), SQL, MySQL, PostgreSQL
- **IDEs & Tools:** Visual Studio Code, Postman, Visual studio 2017 & 2019, Eclipse, XCode, FileZilla, Google Colab, Figma (mock-up), Visual Paradigm
- **Software Development Methodologies:** Agile, Iterative & Waterfall SDLC, SCRUM
- **DevOps:** Docker, Jenkins, GitHub, Kubernetes, Continuous Integration and Continuous delivery (CI/CD)
- **Cloud Platforms:** AWS, Microsoft Azure, GCP
- **Collaborative tools:** Jira, Azure DevOps, Notion

## AWARDS

- **First Place Winner**, Seneca Hackathon
- **Simpler and Modern Service Delivery - First Place Award Winner**, OPS Microsoft Power Platform Hackathon

## VOLUNTEER EXPERIENCE

- **Event Coordinator** – Google Developer Group (GDG) Cloud Toronto
- **Event Operations Head** – Future Makers 2023, Orbit 5 (Held in George Brown College)