Kushal Mayankbhai Patel

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PROFILE — Motivated Computer Programming and Analysis student specializing in **Full-Stack development** with **Node.js**, **React**, **MongoDB** and **Express**. Experienced in software testing (Selenium) and Database management. Currently seeking Co-op opportunities to apply and contribute technical skills and gain hands-on industry experience.

SKILLS

Frontend: React, TypeScript, JavaScript, Angular
Backend: Node.js, Express, JWT
Languages: C#, Java, Python

Databases: MongoDB, MySQL, PostgreSQL
Concepts: OOP, SDLC
Others: Selenium WebDriver, Redux Toolkit, Tailwind CSS, GSAP

EDUCATION

Computer Programming & Analysis – Advanced Diploma   Sep 2024 – April 2027
Durham College   *Oshawa, ON*

− Cumulative GPA: 5.0 / 5.0
− Proven experience in documenting and troubleshooting problems with code.

ACADEMIC PROJECTS

Test Automation for Demo Banking Site – View on GitHub
− Developed **Selenium WebDriver** framework in **Python** to automate 9 core banking modules including customer management, account operations, and transaction statements.
− Built comprehensive test suite with **120+ test cases** using **PyTest**, identifying and documenting **100+ bugs** with detailed reports and screenshots.
− Implemented dynamic test data generation and explicit waits to handle synchronization issues and pop-ups, ensuring reliable test execution.

Cipher Encryption/Decryption GUI Application – View on GitHub
− Developed desktop application in **Java Swing** implementing **Substitution** and **Translation cipher algorithms** with custom encryption logic and complexity key support.
− Built user-friendly GUI with input validation, error handling, and **AODA-compliant** color scheme to ensure accessibility for users with visual impairments.
− Designed modular code structure with separate classes for cipher logic, promoting code reusability and maintainability.

PERSONAL PROJECTS

Blogify - A Blogging App – Live Demo
− Developed full-stack blogging platform using **MERN stack** to address the need for a user-friendly content management system with authentication and personalized profiles.
− Architected **RESTful API** with secure **JWT authentication**, image upload capabilities, and search/filter functionality to enhance user experience.
− Optimized database queries and API endpoints, achieving **30% faster response times** and successfully handling **100+ concurrent users** during testing.
− Deployed production-ready application on **Render** with responsive design, demonstrating end-to-end development and deployment skills.

Personal Portfolio Website – Live Demo
− Built a responsive portfolio website using **Node.js, Express.js, and EJS**, showcasing projects, skills, and education, deployed for fast, reliable access.

EXPERIENCE

Sandwich Artist – Subway   Sep 2024 – Oct 2025
                                                                                    Oshawa, ON

− Managed high-volume customer transactions in a fast-paced environment, processing 50+ orders daily.
− Streamlined workflow processes during peak hours, improving service efficiency and reducing wait times by coordinating with team members.
− Demonstrated strong problem-solving skills by quickly adapting to changing priorities and resolving customer concerns effectively.
− Applied attention to detail and quality standards in food preparation and inventory management, ensuring consistent product delivery.