

# Deep Patel

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## EDUCATION

### George Brown College

Advance Diploma In Computer Programming and Analysis

Toronto, Ontario

Expected Graduation, April 2025

- **Concentrations:** Web & Mobile Application Development
- **GPA:** 3.65/4.00, *Dean's List*
- **Related Coursework:** Advanced Web Programming, Full-Stack Development, Advanced Database Development, Advanced Object-Oriented Programming, Data Structures and Algorithms, Agile Software Development, DevOps

## EXPERIENCE

### Tutor at George Brown College

Mobi Help Tutor

Toronto, Ontario

September 2023 – December 2023

- Delivered comprehensive one-on-one tutoring sessions in web development fundamentals, including C#, ASP.NET, JavaScript, and CSS, helping students grasp complex programming concepts and improve their coding skills.
- Supported students through hands-on lab exercises and projects, providing guidance on debugging, code optimisation, and industry best practices while maintaining a 90% student satisfaction rate.
- Collaborated with lab instructors to create supplementary learning materials and coding examples, focusing on practical applications of web development concepts and database integration using SQL Server.

### Capstone Project ServeEase

Software Developer

Toronto, Ontario

September 2024 – Present

- Developed ServeEase, a cross-platform mobile application using React Native, enabling homeowners to schedule and manage service appointments with real-time tracking capabilities and integrated Google Maps API for location services and Stripe for payments.
- Implemented a robust backend infrastructure using MongoDB and RESTful APIs, handling user authentication, appointment scheduling, and service provider management with seamless data synchronization across Android and iOS platforms.
- Orchestrated continuous deployment using Docker containers and Jenkins pipeline, with version control through Git and GitHub, while maintaining code quality and implementing agile development practices.

## PROJECTS

### Library Room Reservation Project

- Engineered a robust Spring Boot Java-based microservices application for library room reservations, integrating Keycloak OAuth 2.0 authentication, Resilience4J circuit breakers, and fallback mechanisms for enhanced fault tolerance, while implementing automated email notifications via Mailtrap for event booking confirmations.
- Orchestrated a scalable containerized architecture using Docker, leveraging Spring Boot microservices with polyglot persistence (PostgreSQL, MongoDB), RESTful APIs documented through Swagger, and asynchronous communication via Kafka event streaming, enabling efficient room booking management and staff approval workflows

### Employee Management Web Application

- Developed a responsive Employee Management Web Application using MERN stack (MongoDB, Express.js, React, Node.js) with Bootstrap CSS, implementing JWT authentication for secure access, featuring real-time search functionality to efficiently filter through thousands of employee records, and RESTful API integration for seamless data management.
- Implemented CRUD operations with optimized search algorithms, containerized using Docker, and managed version control through Git. Deployed on Vercel for continuous delivery and utilized Postman for API testing.

## SKILLS

**Programming Languages:** Java, Python, JavaScript, TypeScript, PHP, HTML/CSS, SQL, MATLAB, C++, C#.

**Frameworks/Libraries:** React, Angular, Bootstrap, Next.js, Node.js, Spring Boot, ASP.NET Core, Tailwind CSS.

**Tools:** Android Studio, IntelliJ, VS Code, AWS, Azure, Git, Bootstrap, Spring Boot, Agile, Postman, Docker, Jenkins, Kubernetes, Kafka, Travis CI, SonarQube.

**Databases:** MySQL, MongoDB, PostgreSQL, Firebase.