

# KARAN PATEL

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## EDUCATION

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**Bachelor of Computer Science**, Carleton University | 4.0 GPA Sept 2021 - May 2025

- Pursuing a Specialization in Software Engineering and Minor in Business with **\$16000** scholarship.
- Related Coursework: Introduction to Python, Java Object-Oriented Programming, Abstract Data Types and Algorithms, Discrete Structures I/II, University Calculus, Linear Algebra, Foundations of Info Systems, etc.

## EXPERIENCE

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**Teaching Assistant**, Carleton University Jan 2023 - Present

- Provided academic support to professors and students, including grading, review sessions, and office hours
- Facilitated group work and collaborative learning in the classroom
- Demonstrated strong problem-solving, critical thinking, and communication skills, and a commitment to education and student success

**Software Engineering Intern**, Ideabytes Inc, *Ottawa, ON* Jan 2022 - Sept 2022

- Improved company testing software run-time from **2** minutes to **20** seconds by using in-depth time/space analysis.
- Generated **\$1000** in monthly profits by introducing newer insights and tools to existing clients.
- Implemented new features such as website component visualizations, spell check, and auto-generated PDF's.
- Upgraded the response time of the RESTful API from **2.6** seconds per request to **0.9** seconds per request.
- Built an authentication system to log in and sign up users using internal authentication servers.

## PROJECTS

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**Pathfinding Visualizer** | Javascript, HTML/CSS

- Created a application to help visualize path finding algorithms between two points on a grid.
- Implemented Dijkstra's, A\*, Breadth First Search, and Depth First Search Algorithms to be visualized.

**Password Manager Web Application** | Java, Spring Boot, Postgres SQL, HTML/CSS, Thyme-leaf,

- Built a secure password manager application to help store daily passwords.
- Encrypted the application and user details with Spring Security, login authentication and email verification.
- Deployed Application in the Cloud and used Postgre SQL as primary database.

**Web Crawler And Search Engine** | Java, JavaFX, Python, Tkinter, HTML, Selenium

- Designed a Search Engine that implements a web crawler and ranking system using Page-Rank algorithm.
- Focused on an MVC model and OOP project design to ensure clean and efficient operations.
- Implemented a JavaFX GUI in which multiple customization options were available for search.

**Activity Registration Bot** | Python, Selenium

- Automated the activity registration process on the city website to ensure consistent and efficient registration.
- Set the script to automatically fit to my daily schedule and completed the registration process within 3 seconds.

## EXTRACURRICULAR

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**Virtual Experience Program:** Completed and acquired Certificate from Companies such as Lyft, J.P. Morgan Chase, Goldman Sachs, Visa and Mastercard by completing tasks such as Designing Software Architecture, Refactoring, Unit Testing and Fixing critical flaws in software.

## SKILLS

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<b>Languages</b>	Python, Java, HTML, CSS, JavaScript, SQL, C
<b>Tools/Frameworks</b>	Git, Spring Boot, Selenium, React.js, node.js, MongoDB (NoSQL), vs-code, Django
<b>Soft Skills</b>	Communication, Time management, Teamwork, Leadership, Adaptability