

NISARG PATEL

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Education

University of Ottawa

Sep-2022 to Present

Bachelor of Applied Science in Computer Engineering (9.1/10.0) CGPA

- Engaged in advanced coursework covering **Java (OOP)** and **Data Structures and Algorithms**, Python, **Computer architecture**, ALU/logic and RTL Design, Machine Code, Electronics, **Android App Development**, and Software Lifecycle with **Agile Methodology**.
- Applied **system design patterns** and **UML diagrams**, demonstrating practical software engineering expertise.
- Developed proficiency in **teamwork**, efficient **communication**, and **task management/assignment**.

Cambrian College of Applied Arts and Technology

Sep-2017 to Apr-2019

Industrial Mechanical Millwright Technician (3.86/4.00) GPA

Projects

PetHarmony (Solo-project: <https://petharmony.onrender.com>)

Jul-2023 to Aug-2023

- Developed a Pet Selling/Adoption **Marketplace Web App** (<https://github.com/nisarg3322/petharmony>).
- Implemented **user authentication** using **Passport.js**, ensuring 100% secure access by storing passwords as **hashes with salts**.
- Users can log in, register, post listings, browse all posted pet listings, and contact sellers for more details.
- Designed complex **relational models** in **Node.js**, **Express.js**, and **MongoDB**, optimizing data storage efficiency by 70%.
- Implemented **Agile schemas** and **method-override** for **RESTful** routes, resulting in a 25% efficiency boost and 38% reduction in processing time.
- Executed **RESTful API** principles, **middleware**, and **error handling**, achieving a 55% improvement in API response time.
- Successfully deployed on **HEROKU** with seamless integration, utilizing **MongoDB Atlas** as the database provider.

TripBuddy(Solo-project: <https://github.com/nisarg3322/TripBuddy>)

Nov-2023 to Dec-2023

- Developed an Android app for Automated Trip Planning that enhances road safety by 50%, achieved through personalized rest-stop suggestions at user-defined intervals. App demonstration is available at: <https://youtu.be/4ITEDXujEF8>.
- Implemented advanced **search algorithms** for custom stop types within a 15km radius of the route, thereby guaranteeing a seamless and secure travel experience.
- Integrated **Google Maps API**, **Google Direction API**, and **Google Places API** to provide real-time routes and detailed information on selected rest-stops, enhancing the user experience by an **impressive 60%**.

Personal Portfolio Website (<https://nisarg3322.github.io>)

Jun-2023 to Jul-2023

- Leveraged HTML, CSS, and JavaScript to craft a captivating personal portfolio hosted on **GitHub Pages**.
- Proficiently employed **Git and GitHub** for precise progress tracking, ensuring effective version control throughout projects

Experience

TD Canada Trust (*Customer service representative*)

May-2022 to Sep-2022

- Strengthened customer relationships by promptly and professionally addressing inquiries and concerns.
- Successfully resolved customer complaints and drafted status reports on customer service issues, achieving a 60% improvement in resolution time and a 75% increase in overall customer satisfaction.

Programing Skills: Java (Advanced), JavaScript, Python.

Web/App development: HTML, CSS, React.js, Node.js, Express.js, Android Studio, Unit Testing, Documentation.

Libraries, Frameworks, Tools: MongoDB, Bootstrap, JUnit, Git, GitHub, JIRA, Firebase, UML, SQLite, XML .

Awards & Certification

- 3x Dean's Honors list (Fall 2022, Winter 2022, Fall 2023) (Issued by University of Ottawa) (scored **9.1/10.0 CGPA**).
- 2x Merit & 1x Entrance Scholarship (**\$4000 Total value**)
- President honors award (Issued by Cambrian College) (Scored – 3.86/4.00)(**\$3000 Total value**)
- Web development Bootcamp - <https://www.udemy.com/certificate/UC-9164c761-0344-43dd-947c-0a9cc198c570/>