

# Sneha Ka Patel

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## EDUCATION

### Algonquin College

Diploma in Computer Programming [GPA: 3.93/4]

Ottawa, Ontario

Sept 2022 – Jan 2024

## TECHNICAL SKILLS

**Languages:** Java, Kotlin, C++ , XML, Python, JavaScript, SQL

**Frameworks:** Jakarta EE, Flask, Node.js, Spring Boot

**Testing:** Automated Test Scripts in Python, Junit Testing, Django

**Database:** Oracle, MySQL, PostgreSQL, Microsoft SQL Server, MS Access, MongoDB, SSMS

**Web Technology:** HTML, CSS, JSON, PHP, Bootstrap, React.js

**IDEs:** PyCharm, Eclipse, IntelliJ IDEA, Android Studio, VS Code, Apache Netbeans **Tools:** GitHub, Zenhub, JIRA, XAMPP, VMWare, Weka, Wireshark, Cisco Packet Tracer, RapidMiner, WordPress, Jupyter Notebook, MS Office

**Machine Learning and Data Science Tools:** Pandas, Numpy, scikit-learn, Matplotlib

**Designing Tools:** Draw.io, Lucid-chart, Figma

## EXPERIENCE

### Internship Experience: Software Test Automation Intern

April 2022 – July 2022

Techno Mantra

Vadodara, Gujarat-India

- Developed and maintained **RESTful APIs using Node.js and Express.js** for a customer management system, demonstrating strong problem-solving skills.
- Worked with MongoDB to perform CRUD operations, **optimize queries**, and ensure data integrity.
- Wrote unit and integration tests using **Mocha and Chai**, and participated in peer code reviews.
- Collaborated with the front-end team to ensure seamless integration of APIs with the user interface, requiring effective communication and adaptability.
- Identified and resolved bugs, improving application stability and performance by 20%, showcasing problem-solving skills and analytical thinking.

## CERTIFICATIONS

- Agile Foundations (LinkedIn Learning):** Gained proficiency in Agile methodologies, Scrum, Kanban, Agile project management, and collaborative team workflows.
- C++ Essential (LinkedIn Learning):** Developed expertise in data structures, algorithms, object-oriented programming (OOP) concepts in C++.
- Complete A.I. and Machine Learning, Data Science Bootcamp (udemy):** Completed comprehensive training covering Data Science, Machine Learning, and Artificial Intelligence, equipping with the skills necessary for industry roles.
- The Web Developer Bootcamp 2024 (Udemy):** Completed in-depth course covering **JavaScript, HTML, CSS, React, Node.js, and MongoDB**, among other vital web development technologies. Acquired the expertise needed to manage databases, develop cutting-edge web programs, and handle server-side logic and integrate a variety of technologies to provide cohesive solutions.

## ACADEMIC PROJECTS

### Task Management Web Application (Node.js, MongoDB)

Mar 2024

- Gathered, analyzed, documented, and verified requirements** with stakeholders, including business partners and Business Analysts.
- Proposed, designed, and developed innovative business solutions based on defined frameworks, and industry security standards. Created and updated design documents to ensure alignment with project requirements.
- Leveraged Node.js for server-side scripting, facilitating rapid page rendering and seamless user interaction.

- Integrated MongoDB as the backend database solution, leveraging Mongoose for schema definition and data validation, ensuring data consistency and integrity.

### Web Application Development (Python) for a Real-Life Client

Oct 2023 - Dec 2023

- Collaborated with a team to **analyze client requirements** and understand the mission of the organization.
- Utilized Python with Django framework to develop a web-based system, following the **Model-View-Controller (MVC)** architectural pattern for responsive design.
- Created and designed a robust database from scratch, ensuring optimal performance, data integrity, and scalability in alignment with project requirements.
- Designed and implemented a user-friendly interface with functionalities for user registration, login, and profile management.

### Bear Image Generator App (Android)

Aug 2023

- Translated **user requirements into actionable features** for system development and enhancement.
- Utilized **Android Studio** to create a user-friendly interface with support for three different languages.
- Used external APIs to generate bear images based on user input.
- Implemented image storage, display, and deletion functionality for user convenience.
- Integrated Room database and followed the DAO (Data Access Object) pattern for efficient data management.

### Banking Account Manager (JAVA)

Feb 2023

- Developed functionality enabling users to deposit and withdraw funds from their accounts using **Object-Oriented Programming (OOP)** concepts in Java, integrating **Enterprise Java Beans and Spring Boot** features. Implemented measures to reduce code redundancy and enforce restrictions on cash inflows and withdrawals for enhanced system security and efficiency.
- While building the project used **GitHub as Version Control System** to achieve comprehensive financial management system.