

# Shrey Bhatt

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## Education

### Seneca Polytechnic College

Computer Programming & Analysis

May 2026

Toronto, ON

- **GPA 4.0 / 4.0**
- **President's Honour List Recipient** (Summer & Fall 2023)

## Work Experience

### STEM Instructor

Exceed Robotics

August 2023 - Present

Thornhill, ON

- Taught **Object-Oriented Python**, Arduino and Lego-based robotics, and 3D modelling and printing to 50+ students on a weekly basis, successfully navigating online and in-person classroom environments.
- Assisted students with utilizing Google APIs for **text-to-speech, speech-to-text, prompt engineering, object detection, image manipulation**, etc.

## Leadership Experience

### IBM Z Ambassador

IBM Z Systems

October 2023 - Present

Remote

- Gained valuable knowledge and wrote articles about mainframe technology, attended several global IBM Ambassador events and currently training to become a **Certified IBM Mainframe Application Programmer** via their Interskill Learning Platform.

### Head of Operations

Seneca Software Developer's Club

October 2023 - Present

Toronto, ON

- Led the operation of 8 weekly study sessions, 3 exam reviews, 2 major club projects (Discord bot, AWS DynamoDB), started multiple minor club projects and **rebuilt the entire marketing and content teams**.

### Peer Mentor / Seneca Mentoring Program

November 2023 - Present, Remote

## Recent Projects

### Secure Authentication System

Python, MySQL, Pandas

- Developed a module capable of generating cryptographically secure pseudorandom salts, encoding it using UTF-8 and base64 and SHA-256 hashing passwords during storage using PKCS#5 password-based derivation function and HMAC **significantly enhancing the security of user credentials**.

### LeaseProtect | Hackathon – Seneca Housing

Solidity, Truffle, Ganache, Next.js

- Led the development of an **Ethereum-based Smart Contract** solution written in Solidity, developed in Truffle and tested in Ganache. Our SHA-256-based immutable & decentralized integrity verification system aimed to provide a solution against the 160% increase in Ontario's rental scams last year.

### Eyecare Assistant

C++, OpenCV, Bash

- Created an elementary assistant on Linux, which utilizes system alerts to indicate to the user that they have been at their computer for a long period of time. It does so by **facial detection** and will help reduce digital eye fatigue called Computer Vision Syndrome (CSV) which affects almost 90% of users past the 2-hour mark.

### VoiceRE | Hackathon – DeerHacksV3

Google API, OpenAI, Next.js, Flask

- Developed the entire back end and linked **Next.js with Flask using RESTful APIs** in under 24 hours. The application stores user-recorded audio onto Cloudinary, records it via MongoDB, and utilizes Google API and OpenAI, converting it into prompt-engineered questions for enhanced learning (Learning Reimagined).

## Technical Skills

**Languages:** C, C++, Python, MySQL, JavaScript, TypeScript, HTML, CSS, Bash, COBOL, Solidity

**Frameworks / Libraries:** Bootstrap, Node.js, NumPy, Pandas, Matplotlib, Express, MongoDB, OpenCV, React

**Software / Tools:** MS Office, Git, Linux, Jira, Zowe Editor, Unity, Visual Paradigm, VMware, Fusion 360