Shrey Bhatt

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Education

Seneca Polytechnic College   May 2026
Computer Programming & Analysis   *Toronto, ON*
- **GPA 4.0 / 4.0**
- **President's Honour List Recipient** (Summer & Fall 2023)

Work Experience

STEM Instructor   August 2023 - Present
Exceed Robotics   *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.

Supply Teacher   September 2023 - Present
STEM Academy of Canada   *Remote*
- Conducted leadership as well as robotics sessions with students from **different provinces across Canada** and created a well-curated Arduino-based robotics curriculum spread across 8 weeks for students from grades 3-6 and 7-11 focused on remote learning.

Leadership Experience

IBM Z Ambassador   October 2023 - Present
IBM Z Systems   *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   October 2023 - Present
Seneca Software Developer's Club   *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**.

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   Next.js, Flask, OpenAI, MongoDB

- 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

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

Developer Tools: Git, Linux, Jira, Zowe Editor, Unity, Visual Paradigm, VMware, Fusion 360