

ANGEL SHINH

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Education

Computer Programming and Analysis (4.0 GPA) — Seneca Polytechnic, North York
Jan 2024 - Present

Experience

Technical Systems Analyst — Royal Bank of Canada (RBC)

September 2025 – Present

- Automating data workflows and analytics processes using Python, improving data quality and operational efficiency.
- Building dashboards in Tableau to visualize IAM data insights, aiding strategic decision-making in cybersecurity.
- Writing SQL queries and optimizing data pipelines to maintain secure, performant access to identity datasets.
- Collaborating in an Agile environment to deliver end-to-end data solutions aligned with RBC's digital transformation goals.

Machine Learning Engineer & Data Science Intern — Meta Trading Club

Jan 2025 – Apr 2025

- Developed predictive models to analyze market patterns, leading to a 10% increase in simulated returns.
- Built data pipelines using Python and JavaScript to automate extraction and transformation of financial datasets.
- Integrated NLP-powered prompt engineering for news-based sentiment analysis, improving short-term prediction reliability by 15%.

Computer Science Instructor — LogicFusion

Jul 2025 – Present

- Teaching robotics and game development in Roblox Studio to students aged 8-16.
- Instructing programming fundamentals in Python and C++ through project-based learning.
- Developing engaging curriculum materials that foster computational thinking and problem-solving skills.

Lab Assistant, IPC144 (Introduction to Programming Using C) — Seneca Polytechnic

Sep 2024 - present

- Supporting 120+ students per semester through hands-on help with assignments and lab activities.
- Raising class average by 30% through one-on-one guidance and peer-learning strategies.
- Conducting code reviews and debugging sessions to strengthen students' understanding of C programming concepts.

Coding Tutor — Beaver Creek Kids Club

Sep 2024 - June 2025

- Mentored 20+ students weekly in C++ and Python fundamentals, achieving a 95% lab pass rate.
- Designed interactive coding challenges and exercises to reinforce programming concepts.
- Provided personalized feedback and guidance to help students overcome learning obstacles.

Projects

Somnio - Dream Journal & Network Platform • [GitHub](#)

- Built full-stack dream journaling platform with AI-powered similarity matching achieving 70%+ connection accuracy.
- Implemented Neo4j graph database for relationship mapping and immersive Three.js 3D dream network with real-time navigation.
- Developed RESTful API with 20+ endpoints, JWT authentication, and responsive Next.js frontend with emotion-based visualizations.

Facial Expression Recognition App • [GitHub Backend](#) • [GitHub Frontend](#)

- Achieved 75.3% accuracy on a 10K+ image dataset using TensorFlow and OpenCV with real-time emotion recognition at 30 FPS.
- Implemented inference under 200 ms and design for scalability using modular components.

Movie Recommendation System • [GitHub](#)

- Developed hybrid recommendation engine combining collaborative and content-based filtering.
- Leveraged Scikit-learn, Pandas, and cosine similarity to personalize user recommendations.

Leadership & Activities

- Food Bank Volunteer — Royal Bank of Canada (RBC) & Allan Gardens** October 2025
- Served 300+ community members in 3 hours as the only co-op student on IAM team, coordinating food distribution logistics.
 - Managed continuous restocking of supplies and assisted with crowd flow management to ensure efficient service delivery.
- Event Logistics Coordinator — IAM Townhall Halloween Event, RBC** October 2025
- Coordinating event logistics including audio setup, music playlist management, and technical equipment operation.
 - Announcing winners of online contests and facilitating smooth event flow for department-wide celebration.
- Developer and UI/UX Designer — CUSEC** May 2025 - Present
- Designing and developing intuitive interfaces for CUSEC 2026 conference website using Figma and modern web technologies.
 - Creating seamless user journeys and responsive components to enhance attendee experience for Canada's largest student-run software engineering conference.
 - Collaborating with cross-functional team to implement design systems and maintain brand consistency across digital platforms.
- Peer Mentorship — Seneca Polytechnic** Aug 2024 - Present
- Mentored 80+ international students, enhancing retention by 70% in the first term.
 - Co-led workshops on time management and academic strategies with 90% satisfaction rating.

Skills

Programming: Python, JavaScript, C, C++, Bash

Machine Learning & Data Science: Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch

Web Development: React, Next.js, Node.js, Express.js, RESTful APIs

Databases: MySQL, MongoDB, PostgreSQL, Neo4j

Tools & Platforms: Git/GitHub, Jira, Visual Studio Community, VS Code, Tableau, Three.js, React Three Fiber, JWT, Tailwind CSS