

Amandeep Singh

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EDUCATION

Ontario Tech University

Bachelor of Science in Computer Science, Minor in Math

- President's Honours Award with **4.2/4.3 cGPA**

Oshawa, ON

2022 – Present

EXPERIENCE

Software Engineering Intern (Emerging Technologies)

Jan 2026 – Present

Fidelity Canada

Toronto, ON

- Lead stakeholder sessions to identify opportunities and translate business needs into **technical specifications**.
- Develop **Python** LLM agents to automate market research and content workflows, reducing manual effort by **40%**.
- Engineer **RAG pipelines** to enable secure querying of internal data for high-accuracy automated reporting.
- Integrate LLMs into workflows via pipelines, applying **prompt engineering** for safety and brand alignment.

Automation Analyst Intern

July 2025 – Dec 2025

Fidelity Canada

Toronto, ON

- Partnered with stakeholders to assess needs, evaluate feasibility, and define automation requirements.
- Built and deployed solutions (**Power Apps**, desktop/cloud flows) eliminating **1,000+ hours** of manual efforts.
- Managed **5+ projects** simultaneously, overseeing requirements, development, testing, and deployment.
- Led **UAT** and coordinated sign-offs, driving **100% adoption** across 8 business units.
- Redesigned legacy systems and migrated **VBA tools to Power Apps**, reducing data duplication by **90%**.

Software Engineering Intern

Jan 2025 – July 2025

Fidelity Canada

Toronto, ON

- Implemented **audit history** for ETF tabs to track changes across multiple attributes, including user details.
- Developed **APIs** for the audit history tab to retrieve change logs based on flexible business criteria.
- Migrated 70% of the legacy backend from **Spring** to **Spring Boot**, introducing **Docker** for containerization.
- Optimized APIs to deliver results in **seconds instead of minutes** with standardized formatting.
- Expanded fund structure functionality by adding new attributes and integrating them into Excel export workflows.
- Eliminated legacy auto-generated API code, reducing redundant objects by **50%**.

PROJECTS

LeetCode Assistant | *Python, FastAPI, Gemini API, RAG*

- Developed an AI LeetCode coach using the **Gemini API** to provide Socratic hints and complexity analysis.
- Engineered a **RAG pipeline** to index and retrieve similar solved problems, significantly improving hint accuracy.
- Built a secure **FastAPI backend** with middleware to block prompt injection and enforce custom safety guardrails.
- Designed a **Chrome Extension** to securely read code state and problem descriptions from the DOM in real-time.

UniGather | *Flutter, Firebase, Geocode API*

- Developed university event management app using **Flutter** for creation, discovery, and registration.
- Implemented **Geolocation** features and address validation using the **Geocode API** for accurate event mapping.
- Integrated **Firebase Authentication** and **Cloud Messaging** for real-time notifications and secure user profiles.
- Designed a themed UI with image handling and advanced navigation to connect students across different cities.

Snake & Ladder Multiplayer Game | *Java, WebSockets, HTML/CSS*

- Built a full-stack multiplayer game using **WebSockets** to enable instant state synchronization between clients.
- Architected server-side logic in **Java** to handle room management, player tracking, and concurrent game sessions.
- Designed an interactive **JavaScript** canvas UI with animated dice rolls, real-time chat, and dynamic theming.

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, SQL, HTML/CSS, Dart, MATLAB

Frameworks: Spring Boot, Spring, FastAPI, React, Flask, Flutter, PyTorch

Developer Tools: Docker, Git, Firebase, Postman, Maven, Power Platform, Linux

Libraries: JUnit, Hibernate, Pandas, NumPy, WebSockets, Tailwind CSS, Gemini API