

# Amandeep Singh

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## EDUCATION

<b>Ontario Tech University</b> <i>Bachelor of Science in Computer Science, Minor in Math</i>	Oshawa, ON 2022 – Present
• President's Honours Award with <b>4.2/4.3 cGPA</b>	

## EXPERIENCE

<b>AI Developer Intern</b> <i>Fidelity Canada</i>	Jan 2026 – Present Toronto, ON
• Lead stakeholder sessions to identify opportunities and translate business needs into <b>technical specifications</b> . • Develop <b>Python LLM</b> agents to automate market research and content workflows, reducing manual effort by <b>40%</b> . • Engineer <b>RAG pipelines</b> to enable secure querying of internal data for high-accuracy automated reporting. • Integrate LLMs into workflows via pipelines, applying <b>prompt engineering</b> for safety and brand alignment.	
<b>Automation Analyst Intern</b> <i>Fidelity Canada</i>	July 2025 – Dec 2025 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**  
*Fidelity Canada*

• 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

<b>LeetCode Assistant</b>   <i>Python, FastAPI, Gemini API, RAG</i>	
• Developed an AI LeetCode coach using the <b>Gemini API</b> to provide Socratic hints and complexity analysis. • Engineered a <b>RAG pipeline</b> to index and retrieve similar solved problems, significantly improving hint accuracy. • Built a secure <b>FastAPI backend</b> with middleware to block prompt injection and enforce custom safety guardrails. • Designed a <b>Chrome Extension</b> to securely read code state and problem descriptions from the DOM in real-time.	
<b>UniGather</b>   <i>Flutter, Firebase, Geocode API</i>	
• Developed university event management app using <b>Flutter</b> for creation, discovery, and registration. • Implemented <b>Geolocation</b> features and address validation using the <b>Geocode API</b> for accurate event mapping. • Integrated <b>Firebase Authentication</b> and <b>Cloud Messaging</b> 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