

Amandeep Singh

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EDUCATION

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

EXPERIENCE

Software Engineering Intern (Emerging Technologies) <i>Fidelity Canada</i>	Jan 2026 – Present 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 <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 <i>Fidelity Canada</i>	Jan 2025 – July 2025 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 <i>Python, FastAPI, Gemini API, RAG</i>	
• 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 <i>Flutter, Firebase, Geocode API</i>	
• 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 <i>Java, WebSockets, HTML/CSS</i>	
• 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