Kashish Verma

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Objective

Computer Science student with experience in full-stack development and building AI-drive applications, eager to contribute and learn in a growth-oriented environment.

Work History

Software Engineer Intern | Toronto, ON   *Jan 2025 – May 2025*

Technical Lead - AI-Agent Customer Support Platform Project *(OpenAI, LangGraph, Cosmos DB)*

- Developed AI-driven customer support platform handling 10k+ monthly queries, using OpenAI (GPT-4o), LangGraph, and Azure cosmosDB
- Boosted LLM accuracy by implementing semantic search with OpenAI embeddings and pgvector indexing.
- Automated secure deployments using Docker, GitHub Actions, reducing deployment time by 40%.
- Led a team as Technical Lead, making important architectural decisions, encouraging teamwork, and delivering project 2 weeks ahead of deadline.

Mathematics Instructor | Mathnasium, Toronto, ON   *Feb 2024 – Present*

- Collaborated with teachers and educational professionals to develop and refine instructional strategies.
- Developed problem-solving and analytical skills, crucial for debugging and algorithm development
- Managed time effectively, balancing independent and collaborative tasks, ensuring smooth operations.

Technical Skills

- **Languages:** JavaScript, Node.js, C++, C, Python
- **Web**: NodeJS, Express, REST APIs, React, NextJS, Tailwind CSS, Bootstrap
- **AI & Machine Learning**: OpenAI (GPT-4o), LangGraph, Vector Embeddings
- **Databases & Cloud**: MongoDB Atlas, PostgreSQL, Cosmos DB, Oracle SQL
- **DevOps & CI/CD**: Git, Docker, Jira, GitHub Actions, Azure App service

Projects

Lego Collection App | *Node.js, Express, MongoDB Atlas, Tailwind CSS*   *Github Link*   *Vercel Link*

- Designed and implemented dynamic REST routes with Node.js and Express with client side Validations(JOI)
- Stored images in **Cloudinary** for fast retrieval; used **MongoDB Atlas** for scalable data.
- Leveraged EJS for dynamic templating and developed front-end using Tailwind CSS for seamless experience

SmartLib: Library Management System | *C++, OOP, Python, Jira, Git*   *Github Link*

- Built a C++ library system using Object-Oriented principles for managing publications and books , reducing manual work by 60%
- Leveraged C++ STL to streamline library operations, including book loans, returns, and due date tracking.
- Managed project workflow with Git for version control and Jira for task organization

Delivery Route Optimization System [Software Testing Project] | *Testing, C++, Jira, Git*

- Utilized a C++ testing framework to optimize truck delivery routes using the A* algorithm.
- Conducted comprehensive testing (black-box, white-box, and acceptance) to validate system reliability.

Education

Advanced Diploma in Computer Programming and Analysis   *Expected Graduation: Aug 2026*

Seneca Polytechnic   **Toronto, ON**

- CGPA: (3.9 /4.0) Two times on the President's Honor List for outstanding academic achievement
- Relevant Coursework: Web Programming Tools and Framework, Advance Database Services, Object-Oriented Programming, Data Structures and Algorithms, Software Testing, Software Analysis and Design