MUNIM ADIL

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Education

HBSc in Computer Science, Geospatial Data Science   **Expected graduation: Jun. 2026**
University of Toronto, Canada

- Recipient of the **University of Toronto Student Engagement Award**
- **Relevant Coursework:** Data Structures, Algorithm Analysis, Software Design, Systems Programming, Databases, Computational Theory, Web Development, Software Engineering, Spatial Data Science

Experience

Software Developer Intern | Intact   **Jan. 2026 – Present**

- **Technologies:** Java (Spring Boot), Guidewire, Git, Postman, Gradle, Jira
- Optimizing the build and compilation pipeline for a large-scale Guidewire ClaimCenter application, currently achieving a **15% reduction** in build times to enhance overall developer productivity
- Developed a robust backend fuzzy matching solution for microservice integration, **successfully resolving 50% of historical "reporter not found" failures** and improving system data accuracy
- Developed a targeted search functionality for user roles and permissions, significantly accelerating administrative workflows for both development and business practices

Computer Science Lead Teaching Assistant | University of Toronto   **Sep. 2024 – Dec. 2025**

- **Technologies:** Java, Python, HTML/CSS, MongoDB, Express.js, React, Node.js, Git
- **Managed teams of 20+ TAs,** administering weekly labs and coordinating **200+ assignments** each term
- Delivered engaging tutorials for the following popular university-level courses: **CSC207: Software Design** (SOLID, design patterns, OOD, Git practices), **CSC309: Programming on the Web** (full-stack web development, RESTful API design, async programming, deployment workflows, debugging tools)
- Taught core course content **in 20+ tutorials** for class sizes of **30+ students**

Software Developer Co-op | Environment and Climate Change Canada   **May 2023 – Aug. 2024**

- **Technologies:** Python, HTML/CSS, Vue.js, Linux, Cypress, Postman, Docker, Flask, AMQP, Quasar, Git
- Developed **100+ real-time weather visualizations** for MSC GeoMet, supporting **1 million+ daily map loads**
- Integrated AI-driven forecast models into public services, improving accuracy and efficiency **by 20%**
- Debugged a complex data pipeline issue, reducing validation times **by 90%** and accelerating data dissemination
- Independently built an interactive, cross-browser compatible UI, accelerating data collection **by 75%** from complex, multidimensional datasets, earning a **perfect performance evaluation** record from supervisors

Projects

SpeakWrite | Next.js, FastAPI, Gemini, PostgreSQL, WebSockets, Nginx   **Jan. 2025 – May. 2025**

- Spearheading the development of a **scalable, web-hosted AI agent** with a **microservices-based architecture** using REST and WebSocket APIs, enabling intelligent, real-time conversational text editing
- Leading a **team of 7 software engineering students**, utilizing **Scrum methodology** to oversee sprints, manage project timelines, and drive execution through communicating strategic high-level architectural and deployment decisions
- Designing and optimizing **prompt engineering strategies**, fine-tuning model behaviour to improve text coherence, accuracy and response efficiency

luna.sh | C++, lldb, CLI, Make, conda, Git   **Sep. 2024 – Dec. 2024**

- Built a **custom Unix shell** in C++, supporting core commands (cd, pwd, ls, rm, mv) with flag options and seamless command history navigation
- Implemented **memory-efficient object-oriented design** with custom test suites

Technical Skills

Languages: Python, Java, C/C++, SQL, JavaScript, HTML/CSS
Frameworks & Libraries: React, Next.js, Vue.js, Node.js, Spring Boot, Express.js, FastAPI, Django, Flask, Cypress
Tools & Platforms: MongoDB, Vercel, lldb, Docker, Git, Linux, PostgreSQL, Postman, Make, Guidewire, Gradle
Certificates: Supervised ML (Stanford/Coursera, Jul. 2025), Advanced Learning Algos (Stanford/Coursera, In Progress)