MUNIM ADIL

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Education

HBSc in Computer Science, Geographical Information Systems

University of Toronto, Canada

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

Experience

Computer Science Teaching Assistant | University of Toronto

- Technologies: Java, Python, HTML/CSS, MongoDB, Express, React, Node.js, Git
- 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)
- Selected as Head TA during peak periods, managing teams of 20+ TAs, administering weekly labs and • coordinating grading of 200+ assignments per term
- Taught core course content in 20+ tutorials for class sizes of 30+ students •

Software Developer Co-op | Environment and Climate Change Canada

- 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%
- Reduced pipeline validation times from 10 min to >1 min (-90%), speeding 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

Full Stack Developer | University of Toronto Research Opportunity Program

- Technologies: TypeScript, MongoDB, Express, React, Node js, DigitalOcean, Python, Git
- Optimized ETL workflows through Python scripts, accelerating data ingestion by 80% and improving data • accuracy by 25%
- Promoted from Research Student to Research Assistant within 3 months for high-impact contributions and leadership

Projects

SpeakWrite | Next.is, FastAPI, Gemini, PostgreSQL, WebSockets, Nginx

- 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

- 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 HTML/CSS, JavaScript

Frameworks & Libraries: React, Next.js, Vue.js, Node.js, Express.js, FastAPI, Django, Flask, HuggingFace, Cypress Tools & Platforms: MongoDB, Docker, Git, Linux, PostgreSQL, Postman, Make, Vercel, DigitalOcean

Expected graduation: Jun. 2026

Sep. 2024 – Dec. 2024

Jan. 2025 – Present

Sep. 2024 – Dec. 2024

Dec. 2022 – Aug. 2023

May 2023 – Aug. 2024