

Joyee (Zhuoyi) Jin

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Skills

Languages: C++, C, Java, Python, JavaScript, SQL, HTML5

FrameWork/ Technology: R, NumPy, Microsoft Azure, Unit Testing, PyTorch, Next.js, Vercel, Git, CSS

Education

University of Toronto

BS in Computer Science, Computational Cognitive Science and mathematics

Sept 2023 – May 2027

Experience

Software Developer

University of Toronto

Toronto, Canada

Sept 2025 – present

- Built ML and database features for APLUS, used by 1000+ students, improving data speed by 30
- Developed ML pipelines and frontend interface for Balance AI

IT officer

Department of National Defence

Vancouver, Canada

Feb 2025 – Present

- Designed and maintained web systems for 200+ cadets/staff.
- Automated workflows with Azure cloud tools, reducing processing time by 30
- Coordinated cross-team digital initiatives and technical support

Full-stack Research Assistant - Stanford University

Human-Computer Interaction in Artificial Intelligence

California, US

May 2025 – Sept 2025

- Built ML models (RoBERTa, Decision Trees) for social media depression detection, reaching 82
- Optimized LLMs with prompt engineering, boosting task efficiency by 20
- Deployed interactive HCI prototypes with Next.js + Vercel integrating ML backends.

Software Developer Intern

Department of National Defence

Manitoba, Canada

June 2023 – Aug 2023

- Engineered backend solutions for 85,000+ cadets, migrating 25,000+ records securely via Flask with Agile management
- Built a user-friendly portal with file uploads and secure login.

Projects

Paper Reference System

github.com/Paper-Reference-System ↗

- Built academic writing tool with article summarization and semantic search using Python, reducing literature review time

Airline Planning System (Python)

github.com/airline-RS ↗

- Implemented flight planner with real Google Flights data, enabling custom itineraries and optimized search with Pandas/NumPy.

Hearing Disability Assistant

github.com/HOI ↗

- Designed Arduino-based wearable that detects critical sounds (alarms, knocks) and logs alerts to a companion web app.