

# Joyee (Zhuoyi) Jin

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## Skills

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

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

## Education

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**University of Toronto**

*Sept 2023 – May 2027*

*BS in Computer Science, Computational Cognitive Science and mathematics*

## Experience

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**Software Developer**

*Toronto, Canada*

*University of Toronto*

*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**

*Vancouver, Canada*

*Department of National Defence*

*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**

*California, US*

*Human-Computer Interaction in Artificial Intelligence*

*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**

*Manitoba, Canada*

*Department of National Defence*

*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

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**Paper Reference System**

[github.com/Paper-Reference-System](https://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](https://github.com/airline-RS) 

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

**Hearing Disability Assitant**

[github.com/HOI](https://github.com/HOI) 

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