

# Nevin Ada Çakmak

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## Education

University of Toronto *Computer Science (Co-op)* 2027

- *Relevant Coursework:* Systems Programming, Computer Organization, Software Design, Data Structures & Algorithms
- *Awards:* Received a **\$190,000 CAD merit scholarship** and recognized on the Dean's List for academic excellence (2023 - 2024).

## Work Experience

Backend Developer Intern *Royal Bank of Canada (RBC)* May 2025 - August 2025

- Designed and implemented a **relational database schema**, creating tables, views, and stored procedures to support data generation.
- Built pipelines to **generate, process, and store over 2M+ records**, then integrated it into automated testing suites for backend services.
- Contributed to system design discussions, proposing and implementing **database-driven solutions** that improved testing speed by %70 for a team of 46.
- Navigated the bank's extensive **legacy codebase**, reverse-engineering undocumented workflows to integrate new database features without disrupting production systems.

Undergraduate Researcher *Computing Research Association* May 2025 - Present

- Awarded an **\$8,000 USD grant** to build a framework analyzing coding video tutorials and their impact on learner engagement.
- Designed **data-driven evaluation methods** using Python and statistical analysis to measure effectiveness of instructional content.

## Projects

RateMyCourses.org *Django, MySQL, React.js, AWS* (Website)

- Founded and led development of a platform for university course reviews, reaching **5000+ views and 100+ reviews** in its first year.
- Acted as **full-stack developer and project lead**, recruited and led a 4-person team and overseeing feature rollout and infrastructure.
- Implemented the core rating and review system, a relational database schema, and data management features to scale across universities.

Sentiment Map *Python, BeautifulSoup, VADER, MongoDB, Plotly Dash* (GitHub)

- Building a **sentiment analysis platform** that tracks and visualizes public mood across Canadian provinces using Reddit.
- Engineered **data pipeline** to **collect, clean, and process natural language content**; stored structured data in MongoDB.
- Applied **NLP and unsupervised clustering** to detect trends, keywords, and sentiment shifts; visualized results with a Plotly dashboard.

SwipeShield *Python, NumPy, Matplotlib, Scikit-Learn, Android Debug Bridge, Streamlit* (GitHub)

- Created a passive authentication system with biometric data, analyzed gestures to identify suspicious activity to increase security.
- Developed an **unsupervised machine learning model**, implemented **K-Means clustering** algorithm for anomaly detection.
- **Collected and cleaned data** to set up real-time data visualization with Android Debug Bridge, and Streamlit for frontend.

EduBridge *FastAPI, Vite, React.js, SQLite, Cohere API* (Github)

- Created an AI-driven academic support tool designed to assist K-12 students with learning disabilities and neurodivergence, offering personalized educational guidance and content simplification.
- Designed **APIs and data models** in FastAPI and SQLite to support scalable user interactions and analytics.
- Developed a backend system to process and tailor generative AI responses, enabling adaptive support, and user profiles.

## Leadership Experience

Co-Founder & Co-President *C.R.E.A.T.E.* Jan 2024 – Present

- Founded the university's first **project-based programming club**, growing to 40+ members and an executive team of 7 in the first year.
- Created a structure where members work on real technical projects in teams, enabling collaboration and practical skill-building.
- Organized technical workshops in Python, Linux, and JavaScript, and mentorship sessions for teams to strengthen the club's learning environment and culture of ownership.