Nevin Ada Çakmak

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Education

Honours Bachelor of Science Degree - Computer Science (Co-Op) *University of Toronto*   *September 2023 - Present*
- Relevant Courses: Systems Programming, Computer Organization, Software Design, Data Structures & Algorithms
- Received a $190,000 CAD merit scholarship and recognized on the Dean's List for academic excellence (2023 - 2024).

Work Experiences

Backend Developer Intern *Royal Bank of Canada (RBC)*   *May 2025 - Present*
- Contributing to the development of an automated testing framework with backend API validation while reducing manual testing efforts.
- Building and integrating scalable test suites for GraphQL services using Node.js, Postman, and Microsoft SQL, with the goal of improving test coverage and deployment reliability.

Researcher *Computing Research Association*   *May 2025 - Present*
- Awarded an $8,000 USD grant to develop a research framework analyzing the impact of instructor gender on learner engagement and outcomes in coding demonstration videos.
- Designing and implementing evaluation methods combining educational data analysis and gender studies to improve inclusivity in computer science education.

Projects

RateMyCourses.org *Django, MySQL, React.js, AWS*   ***(Website)***
- Voluntarily contributing to RateMyCourses, a web-based platform that allows students to rate and review university courses.
- As the **founding engineer and lead developer**, I ensuring everything goes smoothly, while acting as a **full-stack developer**.
- Implementing features course rating systems, dashboards, and ensuring smooth user experiences across devices.

EduBridge (GenAI Genesis Hackathon) *FastAPI, Vite, React.js, SQLite, Cohere API*   ***(Github)***
- Created an AI-driven support tool in 36 hours, designed to assist K–12 students with learning disabilities and neurodivergence, offering personalized educational guidance and content simplification.
- Developed a backend system to process and tailor generative AI responses, enabling adaptive support, and user profiles, profile customization and user statistics.

SwipeShield (HTV9) *Python, NumPy, Matplotlib, Scikit-Learn, Android Debug Bridge, Streamlit*   ***(GitHub)***
- Created a passive authentication system with biometric data, analyzed swipe pattern data and identified suspicious activity.
- Developed an **unsupervised machine learning model**, implemented **K-Means clustering** algorithm for anomaly detection.
- Designed an interactive front-end, enabling real-time data visualization with Android Debug Bridge.

Automated Trading Program   ***(Github)***
- Built using **C#** and integrated with the financial trading app's database for real-time data processing.
- Developed a proprietary **trading algorithm for stock markets**, specifically tailored for investors in the BIST100 index.
- Utilized advanced data analysis techniques to make real-time trading decisions, improving trading efficiency and profitability.

Experiences

Co-Founder & Co-President *C.R.E.A.T.E.*   *January 2024 - Present*
- Co-founded and rapidly expanded the club to **50 members and an executive team of 5**, organized members into project teams, optimizing team performance and collaboration, and building a project-based structure that encourages teamwork.
- Directed **8 technical projects and 3 events,** coordinating external and internal communications, ensuring timely delivery of milestones through strategic planning, task delegation, and effective resource management.
- Planned workshops on Python, Linux, and Javascript to **200+ people**, improving member expertise in core technical skills.