

Miles Bernstein

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WORK EXPERIENCE

theScore

Sep 2024 – Dec 2024

Software Developer Co-op

Toronto, ON

- Used Elixir and Phoenix LiveView to build internal software for theScore Bet and ESPN bet, serving over 4.3 million users.
- Delivered features on the front-end and back-end, built unit-tests to ensure the app remains stable and resilient to future development
- Developed deployment pipelines to monitor unit testing, allowing the team to monitor 50+ flakey tests

TribalScale

Jan 2024 – Apr 2024

Agile Software Engineer Co-op

Toronto, ON

- Crafted intuitive and responsive user interfaces for over 10000+ daily active users across multiple projects.
- Engineered custom software solutions using a tech stack of React, NodeJS and Postgres.
- Tailored software to client needs with RESTful APIs and serverless architecture.

DBRS Morningstar

Jan 2023 – Apr 2023

Software Engineer Co-op

Toronto, ON

- Collaborated with developers from around the world to engineer and maintain credit rating software.
- Developed and maintained various APIs and microservices to enhance performance and load times by 50%
- Managed live SQL databases to ensure queries are efficient and data is integrated correctly.

Alpha Coding

Mar 2022 – Dec 2022

Coding Tutor

Toronto, ON

- Lead two classes of students every week through new python concepts and projects.
- Developed compelling lesson plans each week for each class, which fit the abilities of each student.

VOLUNTEER EXPERIENCE

AMACSS

Sep 2023 - Present

Course Representative

Toronto, ON

- Developed presentations and practice problems to help prepare students for their midterms and exams.
- Presented, and lead seminars with audiences of 100+ students for first and second year courses

PROJECTS

[YourScope](#) – *Angular, ASP.NET (C#), MySQL, EF Core, Firebase, Swagger, Python, Bootstrap,*

- Conceived, designed, and implemented a complete web application from the ground up, built on ASP.NET and EF Core.
- Collaborated with other students to deploy a minimum viable product within three months.

[Monte Carlo AI for Ultimate Tic Tac Toe](#) – *JavaScript, HTML/CSS, p5.js*

- Developed and optimized an AI for ultimate tic tac toe using Monte Carlo tree search, resulting in an >90% win rate against humans.

SKILLS

- **Programming Languages:** *C++, JavaScript, C#, HTML/CSS, SQL, Python, Shell Script, Haskell, Java, C, Elixir, Assembly*
- **Technologies:** *Angular, React, Express, Git, AWS, Jira, NodeJS, Machine Learning, AI, Mix, Phoenix LiveView, ASP.NET, Selenium*

EDUCATION

University of Toronto

Sep 2021 - Present

Honors Bachelor of Science, Computer Science

Toronto, ON

- Software Engineering Specialist, Dean's List
- **Relevant Coursework:** Artificial Intelligence, Software Design, Software Tools & Systems Programming, Engineering Large Systems, Principles of Programming Languages, Design and Analysis of Data Structures, Operating Systems.