Miles Bernstein

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WORK EXPERIENCE

theScore   **Sep 2024 – Dec 2024**
Software Developer Co-op   *Toronto, ON*
- Used Elixir and Pheonix 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

[Your Portfolio](#) – *Angular, ExpressJS, PostgreSQL, GCP, Docker*
- Conceived, and designed a web application from the ground up, built on Angular and ExpressJS, allowing users to search for jobs and generate relevant resumes/cover letters using Google's AI powered Gemini.
- Leveraged rotating proxies for web scraping jobs across the internet, Google's OAuth for authentication and Stripe for payments.
- Constructed CI/CD pipelines using GitHub Workflows, to automatically build and deploy to a Google Cloud Virtual Machine.

[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, Docker, NodeJS, Machine Learning, AI, Mix, Pheonix 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.