Ethan Zohar
3A Software Engineering / Avid Rock Climber

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Technical Skills

Languages: Java, C++, Python, JavaScript
Frameworks: Apache Flink, Springboot, Node.js, React, Flask, Thymeleaf
Databases: PostgreSQL, MongoDB, MySQL
Architectures: REST, Socket Connections, WebRTC, JDBC

Education

University of Waterloo   Sept. 2018 - April 2023
Candidate BASc in Software Engineering

85% Cumulative GPA
89.33% GPA in CS related courses

Industry Experience

D2L - Software Developer   Sept. 2020 - Dec. 2020
- Designed a **React** application that integrated with D2L's preexisting Brightspace environment which enabled D2L to enter a new "Free to Teach" market
- Invented new course management tools and student experiences to enable individual users to use the platform without needing a corporate affiliation
- Utilized **Socket.io** to build a **web browser extension** that attaches a live chat segmented for the current web page to help students feel connected to their peers during online learning

Mindbridge Ai - Data & Pipeline Engineer   Sept. 2019 - Dec. 2019
- Used **Flink** and **Springboot** to design algorithms and features for the financial data analytic pipeline
- Designed algorithms to predict the flow of money through complex transactions and detect unusual flows
- Led database migration from **MongoDB** to **PostgreSQL** and created a new data storage and transfer standard resulting in a 40% reduction of code base size and 35% reduction of execution time

Mindbridge Ai - Full Stack & DevOps Developer   Jan. 2019 - April 2019
- Created and deployed a **Java** CLI tool and desktop executable that sanitizes, parses, splits, and concatenates Excel and CSV files, increasing the customer success team's efficiency by 50+ hours/week
- Increased the CS team's autonomy by developing a CSM tool to manage users and check clients' job statuses. Development spanned multiple **Springboot** applications, a **Node.js** server, and a **MongoDB** client
- Implemented **Azure** function apps to maintaining backup disks on cloud storage, reducing disk costs 10x

Plastic Mobile - Software & Hardware Lab Intern   July 2018 - August 2018
- Designed an **AR Android** app using Google **ArCore image recognition** to control a coffee delivering robot

Personal Projects

Discover Daily: discoverifymusic.com   Oct. 2020 - Present
- Web application with **over 2000 daily users** and ranked **#3 Product of the Day** on Product Hunt
- Spotify add-on that automatically generates users a daily curated playlist comprised of recommended songs based on the users listening history and their playlist preferences

Spotify Public Shared Streams: github.com/ethanzohar/Viber   April 2020 - May 2020
- Platform where users are able to both see other Spotify users in their area and join their listening session
- Leveraged the **Google Maps API** to create map views and **Spotify's API** to synchronize the music streams

Online Whiteboard Tool: whiteboards.tech   May 2020
- Leveraged **Firebase's Google authentication** as well as **Firestore's realtime database** to create a live updating whiteboard tool with integrated text chat to help students collaborate during the pandemic

Live Streaming Service: screenshare.pro   July 2019 - Nov. 2019
- Online live streaming service that uses **WebRTC** sockets to directly stream screen capture to viewers