Elai Mizrahi

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About me

An undergraduate student at the University of Waterloo, currently studying Software Engineering with an expected graduation date of May 2027. Passionate about working on large-scale, innovative projects in the software field. Looking to work in FullStack or Mobile development.

Skills

Languages — *Java, C, C++, Python, Javascript, HTML, CSS, SQL*
Frameworks — *RESTFUL API's, Firebase, TensorFlow, Node.js*

Education

University of Waterloo   *Waterloo, ON*
BSE, Bachelor's in Software Engineering   *Sept 2022 - 2027*

- Cumulative CAVG: 81%
- Elected as Academic Representative for Software Engineering
- **Courses:** C programming, C++ programming, object-oriented programming, discrete math and logic, linear algebra, calculus

Projects

Music Review Web App   *Personal Project*
ReactJS, RESTFUL API's, Javascript, HTML, CSS, Node.js   *Dec 2022 - Jan 2023*

- Created ReactJS web application that allows users to save their music reviews using **ReactJS**, **REST API's**, and **GET** requests
- Learned elements of **ReactJS**, how to connect various **REST API's** within applications and design website from scratch
- Allowed for user authorization using the **Spotify Web API** while saving data locally through **Node.js**, improving on original design

Self Driving RC Car   *Software Engineering 101 Project*
Python, TensorFlow, Raspberry Pi   *Sep 2022 - Dec 2022*

- Designed and created RC car that will recognize, drive towards, and scoop up objects that are seen by the car
- Implemented using a **Raspberry Pi Zero** and the **Raspberry Pi OS**, along with **TensorFlow** and **Python** to detect objects using their location in images and control movement of car through **Raspberry Pi** program

Connect 4 Game   *Personal Project*
Java, Java Swing   *Feb 2022 - May 2022*

- Developed Connect 4 Game using **Java** and **Java Swing** graphics that allows for two or three-player game-play
- Includes various game-play features such as dynamic introduction pages, game boards, and scoreboards, creating enjoyable user experiences

Task Tracking Web App   *Personal Project*
ReactJS, Javascript, HTML, CSS   *Dec 2022 - Jan 2023*

- Designed **ReactJS** web app that keeps track of user's tasks and their times using **ReactJS, HTML, JavaScript** and **CSS**
- Implemented modular **JavaScript** components to display tasks with **CSS**, improving app design

Experience

UWaterloo EcoCar Design Team   *Waterloo, ON*
CSW Team Member   *Sep 2022 - Present*

- Researched methods of creating 3D model of automotive interiors using **Blender** and **Python**
- Implemented **object-oriented programming** to ensure the completion of tasks before deadlines

Walmart   *Waterloo, ON*
Cashier   *Nov 2020 - Aug 2021*

- Managed financial transactions occurring on registers and customer service, and self-checkout
- Followed COVID-19 protocols in a high-risk and fast-paced environment, ensuring completion of necessary tasks

Awards

2022	**71/100 (Top 25%),** Euclid Math Contest	*Canada*
2022	**Waterloo Collegiate Institute Award of Excellence**, Commitment to clubs, athletics, and academics	*Waterloo, ON*
2022	**Waterloo Collegiate Institute 25th Anniversary Award**, Exceptional leadership within the school	*Waterloo*

Extracurriculars

Volleyball — Earned medals in Nationals, 2018 Ontario Summer Games, and 2022 Israel Maccabi Games through 8+ years of experience
Community — Volunteered at COVID-19 Vaccine clinic throughout pandemic and founded first Jewish Student Association in Waterloo Region
Clubs — Member of UWStartups club and intramurals volleyball team