Elai Mizrahi

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EDUCATION

University of Waterloo — Aug. 2022 – May 2027
Bachelor of Software Engineering, Specialization in Artificial Intelligence — *Waterloo, ON*

- Cumulative average: 81%
- Elected as Academic Representative to advocate for the 2027 class of Software Engineering
- **Courses:** Operating systems, databases, compilers, data structures & algorithms, numerical computation

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C++, C, Java, SQL, Terraform, Swift, Assembly, VHDL, Go
Frameworks: React, MongoDB, Django, AWS, Node.js, Postgres, Docker, Tensorflow, Firebase, Celery, ElasticSearch
Developer Tools: Git, GitHub, VS Code, Trello, Pytest, Jira, PowerBI, Linear, GitHub Actions, Google Colab
Libraries: Pandas, NumPy, Matplotlib, DjangoRestFramework, Parcel, Node, Vue, OpenCV

EXPERIENCE

Software Engineering Intern — Sept. 2024 – Dec. 2024
RunQL — *Waterloo, ON*

- Enabled two-way **Snowflake** and **Databricks** data integration, persisting data using **React** and **Typescript**
- Implemented real-time AI-generated charts from query data, processing **10000+** rows while ensuring data privacy
- Extracted query metadata using **AI Models** to enable faceted **Opensearch** filters, reducing search time by **50%**
- Introduced staging environment using **AWS**, **Typescript**, and **Docker**, reducing production bugs by **75%**

Software Engineering Intern — Jan. 2024 – Apr. 2024
Avante.io — *Toronto, ON*

- Directed **Consili** product to generate summarized news articles with **React**, **Django**, **Terraform**, and **AWS**
- Created **Django** and **Postgres** back end, enabling **1000+** API calls per second for data analysis and creation
- Leveraged and trained **AI Models** to summarize and analyze articles, delivering their contents and rationales to users with interests in the same topics by using **OpenAI**, **Python**, **Django** modelling, **SQL**, and **AWS S3**
- Developed reliable **AWS** lambda scripts using **Terraform** and **Python**, processing **100+** articles per day

Software Engineering Intern — Apr. 2023 – Aug. 2023
Secoda (YC S21) — *Toronto, ON*

- Integrated Jira issues directly into Secoda using **Python** and the **Jira API**, importing **100+** issues per second
- Extracted stored procedures from **MySQL** and generated lineage from the **SQL** query for their respective tables using **Python, Django, and SQL** to provide query metadata between resources
- Introduced **PowerBI** integration to extract metadata in under **30 seconds** using **Azure**, **Python**, and **Django**
- Designed a command palette using **React**, **TypeScript**, and **Python** for fast navigation and resource creation

Software Developer — Sep. 2022 – Apr. 2023
University of Waterloo Alternative Fuels Design Team — *Waterloo, ON*

- Researched methods of creating 3D model of automotive interiors using **Blender** and **Python**
- Used **Git** and **GitHub** tooling to ensure high-quality code production in an agile development environment

PROJECTS

Gotchi.ai - UofTHacks | *React, Python, MongoDB, Node.js, Javascript, Cohere AI* — Jan. 2024

- Developed a Chrome extension for efficient studying with **React, Node.js, MongoDB,** and **Cohere API**
- Integrated an AI chatbot and summarizer for information lookup in under **5 seconds** using **Cohere API**
- Created notes feature using a **MongoDB** database and **Node.js** back-end to store **100+** notes per user

MemoryMaps | *ReactTS, MongoDB, Typescript, Python* — Aug. 2023 – Dec. 2023

- Used **React**, **TypeScript**, **MongoDB**, and **Python** to create and store personalized "Memory Maps" for users
- Implemented **MongoDB** back-end to sync maps, linking songs, notes, and pictures to specific locations

AWARDS & EXTRACURRICULARS

Extracurriculars: UW Startups Club, 4x Volleyball National Medallist, Maccabi Games Silver Medallist
Awards: 2x Term Distinction, President's Scholarship of Distinction, WCI 25th Anniversary Award
Math Contests: Euclid Math Contest Top 25%, score of 71/100, CSMC Math Contest Top 25%