Matthew Farah

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SKILLS OVERVIEW

- Technical skills: HTML5, CSS, JavaScript, ReactJS, Next.Js, Three.Js, D3.Js, Vercel, Tailwind, Bootstrap, HTML/CSS, Python, PyTorch, TensorFlow, C, and SQL Server, Maven, Java, Firestore.
- Expertise in programming & coding, solution design, project management, software testing, database management, product development, and Agile methodologies.

EDUCATION

MCMASTER UNIVERSITY   **Hamilton, ON**
B.E in Software Engineering   *September 2022 – April 2026*

- **Relevant Coursework:** Introduction to Object Oriented Programming, Introduction to Software Development, Data Structures and Algorithms, Discrete Math, Computer Architecture.

PROJECTS

Maze Traverser   *January 2024 – Current*

- Created program to read .txt files and solve or a maze or verify a solution **algorithmically**.
- Built using **Apache** libraries, **Maven**, and **Java**.
- Use of **Git**, KanBan Boards, and **CLI** commands in **Ubuntu** environment.

Spotisize   *September 2023 – Current*

- Lead team of 4 people in development of website to visualize user data using Spotify's **API**.
- Integrated **D3.Js** in **Next.Js** with **Typescript** framework to implement dynamically rendered and interactive UI to display a user's top songs and artists.
- Designed **responsive UI** for mobile and desktop devices using **Tailwind**.
- Used **GitHub actions** and **Vercel** for automatic redeployment of the website.

Alzheimer's AI Detection Model   *August 2023 – September 2023*

- Used **PyTorch** to develop a Convolutional Neural Network (**CNN**) AI image model to detect Alzheimer's early through brain scan data.
- Transformed brain scans stored in the NIFTI file format into tensors needed for the training process using **NumPy** and **NiBabel**.
- Cleaned and organized classification data into CSV's using python scripting and **Pandas**.

WORK EXPERIENCE

Tutor - Hanathan Tutoring Services   *September 2021 - Current*

- Tutored international students of all ages in subjects including English, math, and economics.
- Responsible for creating personalized lesson plans and instructional material.

Inbound Fraud Agent - Scotiabank   *May 2022 – August 2022*

- Responsible for resolving debit and credit card fraud affecting Scotiabank customers.
- Handled and resolved **120+ calls per day** while consistently surpassing performance metrics.
- Trained in banking systems including **AS400**, **PRM**, and Interac/Visa/American Express proprietary systems.