

Homayoun Elyasi

homayounelyasi.com | 647-550-4880 | homayoun.elyasi@mail.utoronto.ca | linkedin.com/in/homayoun-elyasi | github.com/Homieeeeeidk

Education

University of Toronto

September 2021 - December 2026

Honours in Bachelors of Science (H.Bsc), Computer Science Major, Economics Major

Awards

UTM Entrance Scholarship and University of Toronto Scholar program Scholarship for exceptional academic performance

Certifications

AWS (Amazon Web Services) Certified Cloud Practitioner CLF-C02

September 2023 - Present

Experience

AMD | Data Analyst Intern

January 2025 - April 2025

- Led the **complete development lifecycle** of the Resource Estimation Tracker, a platform designed for securely managing and sharing project sizing data used by **AMD's Program Managers** and **executives**.
- Developed a **Power BI dashboard** for the Radeon Software Stack team, reducing dependency on the QA team and cutting the requirements management cycle time by **50%**.
- Refactored the backend ETL script using **optimized data structures**, achieving a runtime improvement of **90%**, from 5 hours down to under an hour.

Environment and Climate Change Canada | Software developer Intern

May 2025 - August 2025

- Participated in daily stand-ups and sprint planning meetings to align priorities and maintain **effective team communication**.
- Conducted user interviews and gathered feedback from internal stakeholders to inform **UI/UX design decisions**, ensuring the application met both technical and user experience requirements.
- Built **Python scripts** to parse, clean, and validate climate-related data, ensuring **high data quality** for downstream analytics.

Projects

Elevate | *Angular, Node.js, Express.js, Python, MongoDB, NLTK/spaCy*

April 2024 – May 2025

- Built **Elevate**, a job matching platform designed to enhance job seeking and career progression through **AI-driven** insights and **machine learning**.
- Utilized **Python** with **NLTK/spaCy** for **Natural Language Processing (NLP)** to parse and analyze resumes and job descriptions, extracting key data points for **60%** improved job matching and saving hours for job seekers.
- Implemented a **RESTful API** using **Node.js** and **Express.js** to facilitate efficient data interactions between front-end and back-end systems, reducing data retrieval time by **40%** and supporting over **1000** API requests.
- Designed an interactive and responsive user interface using the **AngularJS** and **Bootstrap** frameworks, ensuring a seamless and engaging user experience and leading to a **50%** increase in user satisfaction.
- Managed **MongoDB** databases for robust data management and integrated **OAuth** protocols for secure user authentication, enhancing the storage and retrieval processes for user profiles and the **100+** Job postings.

DonkeyType | *Java, JavaFX*

September 2023 – December 2023

- Founded a typing speed and accuracy tester application with focus on **accessibility features** in a team of **4**.
- Applied the **MVC (Model-View-Controller)** architectural pattern principles to integrate different aspects of the program, resulting in a reduction of **50+** hours in the overall development and deployment cycle time.
- Applied several design patterns such as **Decorator, Iterator, and Observer** to help shape the structure of the application, drastically improving code maintainability and flexibility.
- Modeled **UML diagrams** to streamline the development process, reducing the development cycle by over **30 hours** and establishing a robust architectural framework for the application.

Personal Portfolio | *HTML, CSS, JavaScript, React.js, Node.js, AWS*

September 2022 – November 2022

- Programmed a **mobile responsive** Personal Website using **HTML, CSS, JavaScript** and the **React.js** library.
- Utilized the **React DOM** library to efficiently render components and to add user interface features.
- Incorporated **Spring Boot** to streamline backend development, enhancing scalability and speed of the webpage.

Technical Skills

Programming Languages: Python, C, UNIX/Linux, Shell Scripting (Bash), Java, HTML, CSS, JavaScript

Frameworks & Libraries: React.js, Node.js, Express.js, Angular, TensorFlow, PyTorch, .NET Core, JavaFX

Databases: MySQL, PostgreSQL, MongoDB

Development Tools: AWS, Bootstrap, Visual Studio Code, PyCharm, IntelliJ, UML, Git/Github (Version Control)

Concepts: Object-Oriented Programming, Data Structures and Algorithms, Testing and Debugging, Cloud Computing