

ADAM ELMONGY

(647)-607-3819 adamelmongy4@gmail.com <https://www.linkedin.com/in/adam-elmongy/> <https://github.com/adamchamp>

EDUCATION

McMaster University

Computer Engineering

Hamilton, ON

September 2020 – April 2025

- GPA: 3.6

- **Relevant Courses:** Principles of Programming, Data Structures Algorithms and Discrete Mathematics, Information Systems in Business, Computer Architecture, Software Development

Microsoft Azure AI Fundamentals Certification

March 14, 2023

- This certification demonstrates knowledge of machine learning and AI concepts and related Microsoft Azure services

PROFESSIONAL EXPERIENCE

Bell Canada

Hybrid

AI and Data Engineer - Contractor Full-Time

September 2024 – Present

- Actively improving machine learning models using BigQuery, Vertex AI, Python, and Google Cloud Platform (GCP) within Jupyter notebooks to optimize performance and accuracy through interactive development and real-time feedback.
- Conducting thorough data analysis/preprocessing using BigQuery to ensure high-quality inputs for customer-facing models.
- Improved a model with a reach of 100,000 customers a month by increasing its accuracy on classifications by around 30%, along with improving differentiations in past classifications using an advanced understanding of customer interactions and model-tuning.

BulkMagic

Remote

Software Engineer - Contractor Part-Time

February 2023 – August 2024

- Building a web application meant to serve as an alternative to app stores for mobile devices. The application indexes sites with a mobile-centric design and progressive web applications to improve the mobile user experience.
- Led the end-to-end development of a feature-rich API using Flask, accompanied by a meticulously designed MongoDB database schema. The schema incorporates cutting-edge features, including a dynamic referral system and a sophisticated scoring mechanism. It smoothly integrates with AWS S3 buckets for efficient storage of diverse site objects. The solution has reduced request load times by 25%, greatly enhancing the platform's functionality and fostering seamless user interactions.
- Architecting and implementing a highly efficient CI/CD pipeline on AWS using CodePipeline and CodeBuild, with containerization facilitated through Docker. This comprehensive pipeline automates integration, testing, and deployment processes, resulting in a remarkable 35% reduction in deployment time. The enhanced pipeline not only accelerates software releases but also significantly improves error-catching mechanisms.

Kenna Technology Solutions Inc.

Remote

Full-Stack Application Developer Full-Time

January 2023 – August 2023, May 2024 - August 2024

- Built and updated sites and features using React in Typescript and Javascript, including a voting site using HTML, CSS, Javascript, and Node.js backend connected to MS SQL Server to store hundreds of votes and analyze data results.
- Migrated data and API calls from IBM Lotus Notes to MS SQL Server by building new functions and connecting with Node.js to modernize applications and reduce request load times by 15%.
- Built a comprehensive rewards calculator, used intricate calculations to assess customer purchases across over 80 crops.

Trispects

Remote

Software Developer Full-Time

May 2022 – August 2022

- Developed and implemented task automation functions using Selenium in Python for an Oracle business site. These automation scripts streamlined various operational tasks, enabling efficient data retrieval, updates, and management.
- Successfully reduced operational time by 80% through the integration of automated processes. Leveraged Selenium's capabilities to achieve consistent and accurate execution of tasks on the Oracle business site, resulting in improved productivity and reduced manual intervention. Used object-oriented programming principles to organize different actions.

PROJECTS

TrendPost Social Media Application - In Progress

React, Node.js, MongoDB, Express.js

- Developed a feature-rich social media application encompassing posting, liking, and friend interaction functionalities, complete with a modern and responsive UI design.
- Implemented secure JWT-based authentication for user access and prioritized user experience through intuitive navigation and dynamic interactivity.

Chat App with AI Chatbot - In Progress

React, Node.js, OpenAI

- Developing a user-friendly chat application featuring an AI chatbot powered by OpenAI API, enabling dynamic and engaging conversations between users and the bot.

SKILLS & INTERESTS

Programming Languages: Python, JavaScript, SQL, C++, C, Dart, HTML, CSS

Frameworks/Libraries: React, TensorFlow, Flask, Flutter, React Native, Selenium, Pandas, BeautifulSoup

Tools: Docker, Figma, AutoCAD, Jira, Trello, Postman, Visual Studio Code, Android Studio, PyCharm