# Elham Badri

elhambadri24@gmail.com | elhambadri2411.github.io | github.com/ElhamBadri2411 | linkedin.com/in/elhamb

## Education

**University of Toronto** – BS in Computer Science                                             Expected May 2025

## Skills

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| **Languages:** | Java, Python, C, C#, SQL , JavaScript, TypeScript, HTML, CSS, Bash |
| **Technologies:** | React, Next.js, Redux, Node.js, Flask, Express, MongoDB, MSSQL, MySQL |
| **Tools:** | Git, Docker, GCP, AWS, Kubernetes, Perforce, Linux, GitHub Actions |

## Experience

**Software Developer (Internship),** Taq Automotive Intelligence – Markham, ON                    Sep 2023 – Present

- Transformed a monolithic .NET application to a microservices architecture to improve maintainability and reduce costs, creating new SQL stored procedures for efficient data retrieval
- Rewrote and migrated critical validation endpoints from C# to JavaScript, resulting in improved performance and maintainability; validated through Jest unit testing
- Diagnosed and resolved critical bugs, including various timeout errors, increasing system efficiency by 15%
- Migrated applications to AWS with Kubernetes and Docker, effectively using OpenLens for debugging
- Improved efficiency of internal Python scripts by 60% though implementation of multi-threading
- Perfromed Apache JMeter load testing to ensure application integrity and performance under stress
- Created a SQL script to mask all PII data, ensuring compliance with SOC 2 standards

**Software Developer (Part Time),**  University of Toronto Scarborough – Toronto, ON                    Mar 2023 – Sep 2023

- Integrated Sentry error tracking, resulting in expedited issue resolution and enhanced overall product stability
- Implemented an advanced tagging system, improving file organization and search efficiency by 12%
- Resolved critical React routing and form bugs, leading to a 20% reduction in task completion time

**Software Developer (Internship),** Oracle – Toronto, ON                    Sept 2022 – Dec 2022

- Implemented UI and backend features using Java, TypeScript, and SQL, enhancing user experience
- Drove a 60% improvement in search speed and user satisfaction through development of new search feature
- Achieved stability and reliability of features by conducting thorough unit testing, leading to 100% code coverage
- Resolved frontend and backend bugs successfully, improving stability and performance of the application

**Software Developer (Internship),** Sunnybrook Research Institute – Toronto, ON                    Jan 2022 – May 2022

- Developed, documented, and maintained a medical time series analysis and annotation application using JavaScript, jQuery, Meteor and MongoDB, resulting in positive feedback by a panel of sleep health experts
- Refactored code to increase efficiency, while implementing channel scaling, translating channels, and reversing the polarity of channels, enhancing application speeds by 300%
- Integrated user annotations, crosshair sync, and selective channel rendering, increasing user efficiency by 50%

## Projects

**Playbook** | MongoDB, Express, React, Redux, Node, Javascript, GCP, Docker, Kubernetes, Socket.io

- Led a team of 7 to build a gaming social media application, overseeing the entire software engineering process
- Designed app architecture and implemented: LFG, text and image posts, linking game accounts, and live chat
- Created a CI/CD pipeline using Github Actions, Docker, Kubernetes and GCP

**WikiMe** | Python, Flask, Git

- Implemented functions in a Flask backend to create quizzes using Wikipedia's API at Hack the North 2020++
- Leveraged scikit-learn to locate the top 10 most important words in a Wikipedia article to generate quiz
- Developed endpoints that could be easily used by the frontend team in under 36 hours