Elham Badri

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Education

University of Toronto – BS in Computer Science   Expected May 2025

Skills

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

Experience

Backend Developer (Part-time), University of Toronto, IIS – Toronto, ON   July 2024 – Present

- Architected and built an organization directory app, using Next.js, Express, and PostgreSQL, with a data pipeline, developing detailed ER diagrams and a comprehensive plan for all team members
- Owned the entire backend, including designing and implementing API endpoints, database schema, and business logic
- Created CLI tool using Go for parsing and ingesting various Excel files into the PostgreSQL database, eliminating manual data entry for over 100,000 records

Software Developer (Internship), Taq Automotive Intelligence – Markham, ON   Sep 2023 – Apr 2024

- 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% through 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
- Developed a comprehensive plan for a file conversion and compression microservice to make files compatible with other microservices and reduce file sizes by 25%

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

Taleweaver | Angular, DALLE, OpenAI, GCP, Docker, Github, Node.js, Express, Yjs, Redis, BullMQ, TS, Tailwind, Postgres

- Developed an AI story creation app using GPT and DALLE, implementing real-time collaboration with Yjs and WebSockets,while creating various Angular components and Express endpoints
- Created a task queue using Redis and BullMQ to handle long running tasks, improving user experience
- Built a CI/CD pipeline using github actions to deploy application on an AWS lightsail VM