

# TAHA FAISAL

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## Summary

- Versatile Software Developer with exposure to a diverse range of roles across Data Science, DevOps, and Software Development.
- Seeking new grad roles in Software Development to further develop skills and contribute to impactful software solutions.

## Skills

<b>Frontend</b>	React.js, JavaScript, TypeScript, Three.js, Bootstrap
<b>Backend</b>	.NET, ASP.NET Core (MVC/Web API), Flask, Python, C#, SQL
<b>Cloud &amp; Automation</b>	Azure (Resource Manager, Bicep, DevOps), Docker, Git, Github
<b>Testing</b>	Selenium, Playwright, Pytest, Jest, Postman

## Experience

### Software Developer Intern | *Government of Ontario*

Sep 2024 - Apr 2025

- Collaborated within a cross-functional team to **deploy cloud infrastructure solutions** for various ministries using Azure DevOps, enhancing operational efficiency across the organization.
- Developed **internal web applications** using React.js, .NET 8, and deployed via Azure Web App and Azure Functions, leveraging serverless architectures to build scalable and efficient solutions.
- Prioritized security and scalability by implementing OAuth 2.0 for secure authentication and Azure Role-Based Access Control (RBAC) for fine-grained resource management, ensuring robust and scalable cloud solutions.

### Software Developer Intern | *Naryant*

May 2024 - Aug 2024

- Played a pivotal role in executing a complex **migration of a client website**, deploying custom pipelines that automated data extraction and migration, significantly reducing manual processing time and saving over **\$16,000**.
- Implemented a dynamic discussion forum using Vanilla Forums, deployed on Azure and integrated via SSO to boost user engagement.
- Utilized **Selenium** for end-to-end testing of the migrated web application, automating user interactions and ensuring that UI elements behaved as expected across different browsers.

### Data Scientist Intern | *Locomobi World Inc.*

Sep 2023 - Apr 2024

- Worked alongside multiple teams to design and implement a comprehensive software solution for **vehicle identification and tracking**, significantly enhancing operational efficiency.
- Led the development and integration of a **machine learning model** for precise license plate recognition and the integration of YoloV8 for vehicle tracking, improving accuracy from **94%** to **98.2%** and refining system capabilities with image tagging and Re-Identification (ReID) techniques.
- Developed efficient Python scripts using NumPy and Pandas for streamlined data analysis, employing parallel processing to expedite the handling of large datasets, boosting system performance and project outcomes.

### Senior Administrative Clerk | *Sheridan College*

May 2023 - Aug 2023

- Automated diploma processing procedures by leveraging Python libraries such as NumPy and pandas, resulting in a **remarkable 77% increase in efficiency**.
- Utilized Excel queries to clean and refine data, ensuring accurate and reliable information for further analysis and reporting.
- Effectively triaged students, promptly addressing their inquiries and concerns while providing exceptional support and guidance.

## Education

### Bachelor of Computer Science (co-op) - BCS

April 2025

*Sheridan College | GPA: 3.6*

*Oakville, ON*

- Relevant Coursework: Data Structures & Algorithms, Database Management, Distributed & Parallel Computing
- Extracurricular: Sheridan CS Club Executive, Applied Computing Tutor, NSERC Innovation Award Nominee

## Projects

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### PitchPerfect

[ [Website](#) ]

- Engineered an AI-driven interview coaching platform using ASP.NET Core MVC, empowering job seekers with data-driven insights to enhance communication
- Designed a serverless architecture with Azure Functions to asynchronously process interview responses, ensuring seamless scalability and efficiency.
- Integrated Azure Cognitive Services (Speech-to-Text) and OpenAI API to deliver deep linguistic and tonal analysis, providing comprehensive feedback post-interview.
- Implemented Stripe payment integration, enabling secure and seamless transactions for premium AI-driven interview coaching services.

### ParkIt

[ [Demo](#) | [GitHub](#) ]

- Led a team of three to develop ParkIt, an enterprise application designed to combat urban parking shortages, allowing users to effortlessly list and reserve personal parking spaces.
- Implemented robust backend functionalities in C# and ASP.NET Core, incorporating SQL Server for optimized data handling.
- Integrated REST APIs to ensure seamless communication, enabling users to list and book parking spaces with reliability and precision.
- Enhanced the user interface of ParkIt by designing a responsive and visually appealing frontend using JavaScript and Bootstrap, resulting in an overall smoother user experience.

### AlphabetQuiz

[ [Demo](#) | [Github](#) ]

- Engineered an unsupervised machine learning model, leveraging Flask and TensorFlow to recognize handwritten text.
- Harnessed image classification techniques to precisely categorize user input. Drawing insights from a labelled image dataset, to ensure accurate and insightful classification results.
- Utilized advanced data visualization techniques, including matplotlib and seaborn, and implemented a confusion matrix to visualize and assess the performance of the developed model.

### RainOrShine

[ [Website](#) | [Github](#) ]

- Developed a dynamic, responsive website using HTML, CSS, and JavaScript, enabling users to seamlessly inquire about weather conditions.
- Integrated REST APIs to fetch and display real-time weather information based on user-specified locations.
- Incorporated Three.JS to introduce a visually appealing 3D model, showcasing creative design and frontend development expertise.