**ASHAAB KHAN**

Toronto, ON

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**Skills**

* Python, C#, JavaScript, TypeScript, Firestore, PostgreSQL, Node, Angular, Express, React, React Native, Vue, Next.js.
* Django, SQL, GraphQL, AWS, GCP, Docker, Jenkins, Kubernetes, Nomad, .NET, Redux, Vite, Pinia, Jest, testCafe, Git.

**Education**

**Wilfrid Laurier University,** Waterloo, ONSEPTEMBER 2015 – APRIL 2019

* Bachelor of Computer Science, Co-op (Professional Experience Program)

**Work Experience**

**S&P Global,** Toronto, ON SEPTEMBER 2022 – PRESENT

**Software Engineer**

* Wrote and created unit, integrated and automated testing suite using Jest and TestCafe, reducing debug/QA time by 96%.
* Created CI/CD pipeline with Jenkins to automate processing of daily insight files, achieving 100% workflow streamlining.
* Led a team of 5+, increasing productivity by 40% & cutting delivery time by 30% through mentorship and Agile practices.
* Built React trading dashboard using Hooks, Context API, Redux for real-time options charts, increasing trades by 30%.
* Designed and deployed scalable cloud solutions using AWS (Lambda, S3, API Gateway) improving storage costs by 40%.
* Developed REST APIs in TypeScript, Node.js, .Net Core, C# for trading platform to process trade orders, reducing data retrieval latency, enhancing scalability for microservices, improving load handling capacity, supporting 3x higher traffic.
* Containerized microservices using Docker for consistent deployments across environments; used Kubernetes for automated scaling and orchestration, reducing downtime during traffic peaks and optimizing resource usage by 25%.

**Trexity,** Ottawa, ON AUGUST 2021 – AUGUST 2022

**Software Engineer**

* Developed features for web and mobile apps using TypeScript, Node, React/React Native, Redux, Firestore, PostgreSQL.
* Scaled Firestore DB with indexing and sharding, improving cache hit rate by 35% and reducing read/write costs by 85%.
* Introduced merchant dashboard feature to track driver location, increasing delivery quality and accuracy from 80% to 93%.
* Designed and developed system to display routes based on driver’s vehicle specifications, allowing support and drivers to determine if driver’s vehicle can handle delivery volume of route, reducing large volume route renounces by 80%.
* Implemented REST APIs using Node.js and Express to create plugins for Shopify and WooCommerce platforms, enabling merchants to integrate existing storefronts with Trexity merchant portal, achieving 90% adoption rate among new users.

**Parker-Hannifin,** Milton, ON MAY 2019 – JUNE 2021

**Software Developer**

* Created and maintained scalable web applications using ASP.NET, C#, MVC, SQL, JavaScript and Angular.js.
* Developed support chatbot using IBM Watson to support over 1000 vendors, reducing email inquiries by 75%.
* Optimized SQL database retrieval processes and schemas to automate data entry forms saving 50 hours of work monthly.
* Led execution & development of warehouse management system saving over $5,000 and 100 hours of manual labour.
* Outlined and corrected points of inefficiency within supply chain, saving over $110,000 and 1000 hours of labour annually.

**Amazon,** Milton, ON MAY 2018 – AUGUST 2018

**Application Developer**

* Designed and maintained programs using VBA, increasing productivity in fulfilment centres by 40%.
* Streamlined order tracking and shipment process flows by automating various metrics reducing QA audits by 85%.
* Architected program that finds smaller misplaced products in larger bins, saving over $1000 monthly.
* Engineered automation that keeps track of unfulfilled orders, reducing backlog and mandatory overtime by 60%.

**Volunteer Experience**

**Royal Canadian Air Cadets** SEPTEMBER 2009 – SEPTEMBER 2015

* Coordinated and organized Field Training Exercises (FTX) to apply lessons taught at aviation classes to junior cadets.
* Created exercises and training modules specific for each cadet level and understanding.

**Projects**

**FirefliesbyLaboni |** Python, GraphQL, Django, and MySQL **–** *See More:* [*https://bit.ly/3gJL7iE*](https://bit.ly/3gJL7iE)

* E-commerce web application for small retail business with recommendation algorithm to enhance user engagement.
* Automated key backend processes using AWS Lambda, and integrated S3 to reduce execution time for critical tasks.

**Film Finder –** *See More:*[*https://bit.ly/3zwM9XT*](https://bit.ly/3zwM9XT)

* Built AI movie recommender in Python using pandas and scikit‑learn to predict user ratings.
* Implemented ML‑based collaborative filtering (matrix factorization) for personalized suggestions.