# KOLBY SARSON

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## SKILLS

**Programming Languages** | C#, JavaScript/TypeScript, SQL, Python
**Front-End Technologies** | CSS/SCSS, Cypress, ES5, HTML, JSX/TSX, KendoReact, React, RWMC
**Back-End Technologies** | Dapper, MySQL, .NET, Node.js, PL/SQL, Python, REST APIs
**DevOps/Tools** | Azure, Graylog, Git, Npm, Oracle SQL Developer, RabbitMQ, TeamCity, Visual Studio, Visual Studio Code
**Practices** | Agile, CI/CD, Code Cleanup, Estimation, Pipelines, Security, Standups, Unit Testing, Waterfall

## EXPERIENCE & PROJECTS

### Full Stack Developer | Utilismart Corporation                          Nov 2022 - Present

*Full Stack Development of Web and Backend Applications for Utility Customers*          **Azure | C# | JS/TS | .NET | React | SQL**

- Develop and maintain **React/.NET** web applications, enhancing system performance by reducing average **page load times by 25%**, leading to faster interactions and improving user retention.
- Optimizing SQL queries and refining API performance, reducing application **response time by up to 90%** through the implementation of improved **PL/SQL and C#** optimization techniques.
- Lead the development of intelligent algorithms to process large datasets in real time, improving application **performance by 40%** through **SQL and C#** practices, enhancing decision-making capabilities for utility customers.
- Collaborating with product managers, designers, and developers to define feature requirements and deliver high-quality user experiences using **CSS, SCSS, and third-party libraries**, leading to **15% faster feature delivery** timelines.
- Configuring importers to handle diverse file formats (JSON, CSV, XML, DAT, CMEP, HDL/HUL, etc.), optimizing data parsing and processing logic, resulting in a **35% reduction in data processing time**.
- Proactively addressing production issues by staying current with emerging technologies, continuously improving software quality and functionality, and driving enhancements to **CI/CD** pipelines using **Git and TeamCity**.

### System Technologist | Temporary | Lambton Kent District School Board          May 2022 - Nov 2022

*Remote Learning Management System Web Applications*          **MySQL | Python | VBA**

- Managed six K-12 education applications, optimizing accounting and record systems for improved performance.
- Led server upgrades for board-wide accounting applications, ensuring smooth transitions with minimal disruption.
- Enhanced app security through the implementation of best practices, safeguarding sensitive data.
- Delivered timely tech support to users and stakeholders, efficiently resolving issues and inquiries.
- Collaborated cross-functionally on IT projects such as system migrations and upgrades to achieve goals.
- Maintained data integrity and compliance by documenting system configurations, updates, and issue resolutions.

### Business Systems Analyst | Co-Op | Ground Effects Ltd.                     May 2019 - September 2019

*SQL Developer for Reporting and Optimization in Cross-Functional Software Projects*          **MySQL | Navicat | ReportBuilder**

- Designed and implemented SQL queries and reports to deliver real-time data for upper management.
- Optimized existing queries and reports to enhance performance and efficiency.
- Collaborated with IT to train staff on Navicat, Report Builder, and MySQL.
- Participated in cross-functional teams to develop and deliver data-driven solutions.
- Contributed to data quality and validation processes for improved accuracy.

## EDUCATION

### University of Western Ontario | Master of Science, Computer Science | GPA (4.0)          December 2022

- An Investigation Into Time Gazed At Traffic Objects By Drivers

### University of Windsor | Bachelors of Science, Computer Science | GPA (4.0)          April 2020

- Specialization in Software Engineering with a Minor of Mathematics