

# CHRIS BROWN

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## SKILLS

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- C# | .NET | ASP.NET Core | HTTP, REST API | MVC | Razor | Blazor | SignalR | XAML (WPF) | GraphQL
- SQL | NoSQL | Git | Python | Bash | Javascript | C++ | YAML | Backend | Frontend | Full-Stack
- Azure | Docker | Agile | Unit Testing | DevOps | Systems Design | Microservices | Message Queues | Kali Linux

## PROJECTS

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**AutoJobSearch** — *A cross-platform desktop application that automates your job search.*

[bit.ly/424FHGx](https://bit.ly/424FHGx)

- Independently built and released an open-source program that automatically downloads job listings from Google Job Search and Indeed, reducing job search durations by 25% and eliminating duplicate listings
- Implemented a scoring system that searches job descriptions for user-defined keywords and sentiments, simplifying the process of finding high-relevance jobs that align with the user's specifications
- Enhanced user experience by building an Avalonia user interface that enables sorting, searching, filtering, tracking, and saving of job listings, with reliable data persistence achieved using a SQLite database and Dapper

**PokemonDB** — *A website for searching Pokemon, comparing stats, and performing advanced queries.*

[bit.ly/48JLrYg](https://bit.ly/48JLrYg)

- Developed a React frontend and ASP.NET Core Web API backend which retrieves data from containers including Microsoft SQL Server, MongoDB, and Redis, using Docker Compose for container orchestration
- Ensured software quality by incorporating health checks, custom exception handling middleware, logging, and writing unit/middleware/integration tests with 90% source code coverage

**LyricsFinder.NET** — *A web app that automatically retrieves and stores song lyrics.*

[bit.ly/3NT5k79](https://bit.ly/3NT5k79)

- Created an ASP.NET Core MVC web app that allows users to search for songs and quickly retrieve previews and lyrics from the internet, maintaining search response times of generally less than 50ms
- Obtained complete CRUD operation and REST API support by using Entity Framework Core, Microsoft SQL Server, and JWT authentication, increasing the app's usability for human and robot users
- Launched CodeQL static code analyzer workflow against repository via GitHub Actions, improving application security

## EXPERIENCE

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### Logistics Specialist

*Gerdau — Cambridge, ON*

June 2021 — Present

- Spearheaded the adoption of Power Automate Desktop to automate daily computer tasks, increasing efficiency within a team of 4 people and assisting the company grow YoY revenue for 2 consecutive years
- Produced macros and VB scripts for reliable SAP and Excel data processing, saving 10 hours of work per week and reducing common spreadsheet and ERP administrative errors

### Mechatronics Developer

*EXO Insights — Waterloo, ON*

Aug 2020 — June 2021

- Led the design, programming, and testing of a device that measures machine vibrations with Python, C++, and Bluetooth, achieving +/- 5% accuracy tolerances in accordance with ISO standards
- Managed and delivered project with material costs 30% below allocated budget and ahead of schedule by 2 weeks
- Conducted weekly presentations to provide project updates to stakeholders, demonstrating the functionality of the device and communicating detailed technical documentation to the client

## EDUCATION

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### Bachelor of Engineering (Honours)

*University of Ontario Institute of Technology*

Sept 2014 — April 2019

- Electrical and Electronics Engineering — GPA 4.0/4.3