CHRIS BROWN

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SKILLS

- 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

AutoJobSearch — *A cross-platform desktop application that automates your job search.*   bit.ly/424FHGx

- Reduced job search durations by over 25% through developing software that automatically downloads job listings from Google Job Search
- Implemented a scoring system that searches job descriptions for user-defined keywords and sentiments, simplifying the process of finding high-relevance jobs
- Enhanced user experience by building an Avalonia user interface that enables sorting, searching, filtering, tracking, and saving of job listings, all while reliably persisting data using a SQLite database and Dapper

PokemonDB — *A website for searching Pokemon, comparing stats, and performing advanced queries.*   bit.ly/48JLrYg

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

LyricsFinder.NET — *A web app that automatically retrieves and stores song lyrics.*   bit.ly/3NT5k79

- Created an ASP.NET Core MVC web app that displays lyrics and previews of songs searched by the user, maintaining search response times of generally less than 50ms
- Obtained complete CRUD operation and REST API support by using Entity Framework Core, MsSQL, 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

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 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 and demonstrate the functionality & benefits of the device and software

EDUCATION

Bachelor of Engineering (Honours)   *University of Ontario Institute of Technology*   Sept 2014 — April 2019

- Electrical and Electronics Engineering — GPA 4.0/4.3