MITCHELL BROWN

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OBJECTIVE

Software Developer with experience in automation, web development, and full-stack solutions. Skilled in building scalable applications, streamlining workflows, and applying strong problem-solving skills to deliver high-impact results. Motivated to grow through mentorship, challenging projects, and collaboration.

EDUCATION

B.Sc. Honours Computer Science, Minor in Philosophy | Wilfrid Laurier University | Waterloo, ON

- **Relevant Coursework:** Machine Learning, Software Engineering, Data Structures, Networking, Databases

TECHNICAL SKILLS

- **Programming & Frameworks:** Python, Java, JavaScript (ES6+), HTML/CSS, TailwindCSS, React, Redux, Flask, Regex, SQL
- **Data Science & ML:** NumPy, Pandas, TensorFlow, Keras, Machine Learning, Data Structures & Algorithms, Databases & Normalization
- **DevOps & Tools:** Docker, Kubernetes, Git, Cloudways
- **Other Expertise:** Web Development, SEO Optimization, Object-Oriented Programming

PROFESSIONAL EXPERIENCE

AI Consulting Intern | One Ring AI | 2025 – Present

- Advised on AI adoption strategies for manufacturing and service clients, focusing on automation and cost optimization.
- Conducted research on emerging AI/ML technologies to guide strategic decisions and client recommendations.
- Improved company visibility by managing SEO optimization for website and blog, using keyword research, technical SEO improvements, and content strategy.

Software Developer & Consultant | RBC Bank | 2025 (Contract)

- Engineered 3 automation pipelines in Python (Pandas, Regex) to transform large, unstructured .txt datasets into clean DataFrames.
- Cut manual processing time from several hours to under 5 minutes, significantly improving analyst productivity.
- Designed resilient Regex patterns capable of handling inconsistent enterprise-scale data formats, ensuring accuracy across thousands of records.
- Collaborated with team leads to integrate scripts into existing workflows, reducing operational bottlenecks.

PROJECTS

Facial Emotion Recognition | Personal (University Project) *(Python, TensorFlow, Keras, OpenCV)*

- Built a convolutional neural network (CNN) to classify facial emotions from image datasets with high accuracy.
- Implemented preprocessing pipelines with OpenCV for face detection, normalization, and augmentation.
- Applied deep learning best practices (dropout, batch normalization, model tuning) to improve generalization.

Personal Portfolio Website | Personal Project *(React, Flask, Cloudways)*

- Built a responsive portfolio website with reusable components and dynamic client-side routing.
- Implemented Flask backend APIs for contact form handling and structured data retrieval.
- Applied SEO optimization and deployed on Cloudways for scalable performance and online visibility.

Docker & Kubernetes Deployments | Udemy Course Projects *(Docker, Kubernetes)*

- Built 15 containerized projects using Docker, Docker Compose, and Kubernetes.
- Designed custom Dockerfiles and multi-container environments with Docker Compose.
- Deployed containerized applications on Kubernetes clusters, implementing autoscaling, ingress, and persistent storage.
- Applied best practices in secure secrets management, workflow optimization, and cloud-ready architecture.

Modern React with Redux | Udemy Course Projects *(React, Redux Toolkit, TailwindCSS)*

- Built 25 responsive front-end projects applying Redux Toolkit for state management and API integration.
- Implemented client-side routing, reusable UI components, and dynamic data tables with TailwindCSS.
- Applied best practices in performance optimization and scalable project structure.