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Chad Rossouw

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Technical Skills

- Programming:** Javascript/TypeScript, Python, SQL, C, Rust, Java, HTML/CSS, Bash
- Libraries/Frameworks:** Angular, React, Next, Node, Express, PostgreSQL, MongoDB, Flask
- Tools:** Docker, Git, Cloudflare, AWS, GCP, Unix/Linux, Jira, Vector Databases, Cursor/Copilot
- Relevant Coursework:** Data Structures & Algorithms, Software Architecture, REST APIs, OOP, Operating Systems, Computer Networks, Cybersecurity

Experience

Teaching Assistant Part Time Toronto	University of Toronto	Sep 2025 – Present
<ul style="list-style-type: none">Supported 60+ students in mastering full-stack web concepts, including React, Express, and SQL.Led labs, code reviews and office hours to reinforce technical understanding and debugging skills.Graded assignments and delivered targeted feedback to strengthen students' coding proficiency and architectural thinking.		
Software Engineer Full Time Remote	Venho.AI	May 2025 – Aug 2025 Sept 2024 – Dec 2024

- Built an adaptive AI-powered frontend integrating third-party services (e.g., Gmail) through an interactive chat interface, improving user engagement.
- Designed and implemented a semantic analysis engine that interprets natural-language input and generates actionable AI tasks, reducing user friction by 23%.
- Engineered a real-time application layer combining streamed AI responses with guided workflows, enabling seamless context sharing between tasks.

Software Engineer Full Time Remote	AirImpact	Jan 2024 – Apr 2024
<ul style="list-style-type: none">Redesigned the company's Python service architecture to enhance modularity, maintainability, and efficiency, boosting API throughput by 57%.Led migration from OpenAI API to open-source Large Language Models on AWS Bedrock, improving client data privacy and cost efficiency.Enhanced document parsing capabilities to robustly handle advanced tables, images, and graphs using optical character recognition, providing a 48% reduction in processing errors.		

Open Source

Apache Superset <i>Project: Cloudflare D1 Integration (Python / SQLAlchemy)</i>	Sep 2025 – Present
Currently developing a Python DB-API driver and SQLAlchemy dialect enabling Superset to connect to Cloudflare D1, supporting queries and dashboards via an external integration.	

Education

Toronto, ON	University of Toronto	Sep 2022 – Jun 2026
HBSc, Computer Science Specialist (Co-op) - Entrepreneurship Stream		GPA 3.5/4.0

Scholarships and Awards

- Young Entrepreneur Scholarship Award** Mar 2024
Highly selective scholarship for outstanding entrepreneurial and business potential.
- University of Toronto Scholar - Scholarship** Sep 2022
Entrance scholarship awarded for academic excellence.