

Chad Rossouw

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Education

Toronto, ON HBSc, Computer Science Specialist (Co-op) - Entrepreneurship Stream	University of Toronto	Sep 2022 – Jun 2026
Awards: UofT Scholar (<1%), Young Entrepreneurship Scholarship 2024 (20 students)		

Work 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
<ul style="list-style-type: none">Built an adaptive AI-powered frontend incorporating third-party services (e.g., Gmail) through an interactive chat interface, tripling third-party product integrations.Designed and implemented a semantic analysis engine that interprets natural-language input and generates actionable AI tasks, reducing user friction by 23%.Engineered streamed, realtime 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 Python service architecture to enhance maintainability and efficiency, boosting API throughput by 57%.Led migration from OpenAI API to open-source LLMs on AWS Bedrock, improving 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.		

Volunteer Experience

Apache Superset (Open Source) <i>Project: Cloudflare D1 Datasource Integration</i>	Sep 2025 – Dec 2025
Developed a Python DB-API driver and SQLAlchemy dialect enabling Superset to connect to Cloudflare D1, supporting queries and dashboards via an external integration.	
Chair of Technology	Google Developer Student Club

Led the development of GDSC's GenAI Genesis Hackathon website, implemented in React (Next.js) and Firebase, leading to **1000+ applicants** and **300+ hackathon attendees**.

Projects

Pintos Operating System	C, Docker
Built core kernel modules (thread scheduler, virtual memory, user loader, file system) in a lightweight operating system. Added multi-level paging with lazy loading, stack growth and memory-mapped files to improve memory efficiency. Reduced disk I/O latency by 40% via sector caching and eviction policies.	
Eccountant GitHub Developed a financial platform aggregating transactions across multiple credit/debit accounts with subscription detection. Ranked 2nd of 100+ students by industry experts in CSCC09 - Programming on the Web.	
PromptBook Website Built an AI-powered interactive notebook for live prompt engineering and markdown workflows, inspired by Jupyter. Developed drag-and-drop cells (Text, Input, Prompt) with augmentable AI prompts and preset library support. Integrated file upload with vector DB semantic search, reducing cost of file-supported prompts by 80%.	
React, TypeScript, Hono, Drizzle, Tailwind, Cloudflare AI	

Technical Skills

Programming: Javascript/TypeScript, Python, SQL, C, Rust, Go, Java, HTML/CSS, Bash, Dart
Libraries/Frameworks: React, Angular, Next, Node, Express, PostgreSQL, MongoDB, Flask, Flutter
Tools: Docker, Git, Github, 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