Toronto, ON
M1C 4X3

Chad Rossouw

chadrossouw7247@gmail.com
+1 (437) 262-3168
linkedin.com/in/chad-rossouw/
www.chad-rossouw.com

Education

Toronto, ON	**University of Toronto**	**Sep 2022 – Jun 2026**
HBSc, Computer Science Specialist (Co-op)		CGPA: 3.60

Summary of Skills

- Strong understanding of fullstack web development through use of HTML, CSS, Javascript/Typescript, Angular CLI, Node.js, Express.js and SQL to develop comprehensive web applications.
- Familiarity with Python and Bash developed by writing scripts to automate development tasks.
- Proficiency in both relational and NoSQL databases gained whilst building REST APIs to perform back-end operations at scale.
- Extensive experience utilizing Git and GitHub, developed via work alongside 4 other engineers.
- Strong communication skills and ability to quickly learn new technologies formed through experience in fast-moving startups.

Experience

CTO and Entrepreneur   **Docenate**   **Sept 2022 – Present**
Part Time | Toronto

- Designed and built a lecture video search platform using Typescript and the Firebase NoSQL database, enabling users to navigate course lecture videos with unprecedented efficiency.
- Worked with university professors to identify leading indicators of student understanding alongside optimal collection/processing procedures for that data, informing next steps for development.
- Built an extensive metrics collection and display system using serverless computing, enabling professors to view student search metrics in real-time and identify gaps in understanding.
- Composed a Python and bash script pipeline to mass-process lecture videos via the OpenAI embeddings and Pinecone vector database APIs, cutting company costs by over 90%.

Junior Software Engineer   **The Daily Edit**   **Aug 2021 – Mar 2023**
Part Time | Hong Kong

- Designed and built a mass language-annotation platform using Typescript and a SQL relational database, enabling users to generate thousands of pieces of data data designed to train a news analysis AI model.
- Built a data-visualization tool using Python and Pytorch which enabled non-programmers within the company to understand and interpret abstract ML model parameters, performance and output.
- Developed a custom web-extension which integrated with existing multi-tiered company infrastructure to bring the mobile app overlay experience to the web.

Scholarships and Awards

- **Young Entrepreneur Scholarship**   Feb 2023
  Highly selective scholarship awarded to Docenate for outstanding product and business potential.
- **University of Toronto Scholar - Scholarship**   Sep 2022
  Entrance scholarship on the basis of academic excellence.
- **ESF Chairman's Award for Leadership - Award**   Aug 2022
  Awarded on the basis of outstanding leadership contributions in the school community.
- **ESF Chairman's Award for Excellence - Award**   Aug 2022
  Awarded on the basis of outstanding academic performance in the IBDP.