

# VIRENDRA JETHRA

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## EDUCATION

Honours Computer Science (B.A.Sc.), GPA: 3.75/4.0

Hamilton, ON

McMaster University

Relevant Coursework: **Data Structures & Algorithm**, Software Development, **Databases**, **Network & Security**

Awards: Dean's Honours List, Engineering Award of Excellence

## SKILLS

**Languages:** Go, Java, C/C++/C#, Python, Ruby, **HTML/CSS**, **JavaScript**, SQL, Flutter, Elm, Haskell, Linux, Bash, Matlab

**Tools/Frameworks:** Git, React, NodeJS, Kotlin, TypeScript, **OpenCV**, PostgreSQL, OpenAI, **Azure**, PowerBI, **AWS**, Jira

**Concepts:** Agile & Scrum Model, Unit & Functional Test, **Relational Database**, **SDLC**, **OOP**, Design Pattern, SOLID

## EXPERIENCE

Project Systems & Tools Intern

Calgary, AB

TC Energy

May 2024 – Aug 2024

- Improved data processing **efficiency by 30%** through the use of Omega PIMS, VintriCORE, and **Microsoft Power Suite** for **streamlined** project **tracking** and **reporting**.
- Optimized project workflows using Microsoft **Power Suite** tools, leading to a **15% reduction** in time spent on routine data processing tasks.
- Actively **contributed to team projects** by sharing insights and coordinating efforts with colleagues, resulting in enhanced team cohesion and more efficient **problem-solving approaches**.

Software Engineer Intern

Philadelphia, PA (Remote)

DorsalAI

May 2023 – Aug 2023

- Successfully created and deployed a **React-based** website enabling users to search through the company's 10K and 10Q reports for informed **investment analysis**.
- Facilitated **prompt engineering** to optimize **OpenAI** responses, ensuring the **AI bot** provides the most relevant advice based on user queries and leading to a **15% improvement** in response relevance.
- Proficiently leveraged **Git** version control, contributing to **30+ pull requests/branches** to ensure seamless collaboration and streamline versioning throughout the development lifecycle.

## PROJECTS

Simple Terms | *OpenAI, React, TypeScript, Tailwind CSS*

- Crafted a **Chrome Extension** at **Hack The North** summarizing **privacy policies** and **service agreements**, exposing intrusive conditions in popular services, and enhancing **user privacy** awareness.
- Overcame the challenge of processing extensive documents by implementing **parallel processing techniques**, **prompt optimization**, and **preloading mechanisms**.
- Acted as **Scrum Master**, steering **Agile development** processes for a **20% reduction** in feature implementation time, enhancing overall project efficiency.

Chat App | *React, NodeJS, Express, Socket.io, MongoDB*

- Developed a **MERN-based three-tiered system** with a **REST API**, yielding a significant **30% enhancement** in scalability, security, and performance for seamless **client-server communication**.
- Engineered a **robust** and **scalable messaging system** that handled **concurrent connections** and ensured **data integrity**, resulting in a **responsive** and **reliable** chat experience for end-users.

Document Scanner | *Python, OpenCV*

- Leveraged advanced image processing techniques to achieve an **accuracy rate of 95%** in identifying document boundaries through **thresholding** and **edge detection algorithms**.
- Expanded the project's utility by integrating **OCR functionality**, allowing users to **extract text content** from the scanned documents.