VIRENDRA JETHRA

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EDUCATION

Honours Computer Science Co-op (B.A.Sc.), GPA: 3.7/4.0   **Hamilton, ON**
McMaster University   Expected May 2025
Relevant Coursework: Data Structures & Algorithm, Software Development, Databases, Statistics, Comp Archt
Awards: Dean's Honours List, Engineering Award of Excellence

SKILLS

Languages: Python, Go, Java, C/C++, HTML/CSS, JavaScript, SQL, Elm, Haskell, Latex,
Tools/Frameworks: Git, React, NextJS, Tailwind, NodeJS, GitHub, NumPy, Microsoft Suite, DB2, Linux
Concepts: Development Methodologies, Agile Model, SOLID, Unit & Functional Testing, Design Pattern, SDLC

EXPERIENCE

Teacher Assistant   **Hamilton, ON**
McMaster University - Intro to Programming   Jan 2023 – May 2023
- Optimized grading process for **50+ course materials** (labs, assignments, exams) by developing **Python** scripts.
- Offered individualized assistance to students, resulting in a **95% satisfaction rate** in resolving code-related issues and answering queries promptly.

Software Development Intern   **Toronto, ON (Remote)**
GAOTek   Jul 2022 – Aug 2022
- Collaborated with a team of developers using **Java** in **Android Studio,** to create a BLE beacon detection app.
- Contributed to software design through TortoiseSVN as part of a **50-member group**, resulting in **15% faster** code integration and a **10% reduction** in conflicts.

PROJECTS

Green Go | *Flutter, Google Suite API*
- Engineered an intuitive **Flutter**-based mobile application for Hamilton's green spaces, leading to a **40% engagement boost** among McMaster International Club members.
- Actively collaborated with a **Scrum** team to successfully deliver four user stories, adhering to **Agile principles**, and effectively utilized **Jira** for efficient task management and progress tracking.

Paste-Bin | *Node.js, EJS, Express, MongoDB*
- Crafted a visually captivating web application, emulating **HasteBin**, facilitating seamless sharing of code snippets among **5k+ users.**
- Demonstrated proficiency in web development by implementing secure **HTTPS routes** and building **RESTful APIs**, resulting in a **20% decrease** in response time for data retrieval.

Document Scanner | *Python, OpenCV*
- Utilized advanced image processing techniques to achieve an **accuracy rate of 95%** in identifying document boundaries through **thresholding** and **edge detection algorithms.**
- Integrated webcam and image upload functionality, enabling users to extract and save documents as image files or apply **optical character recognition** (**OCR**) for further processing.

AutoNote Taker | *Python, AssemblyAI*
- Developed a **Python** application, interfacing with **AssemblyAI**'s speech transcription API, achieving **95% accuracy** in converting mp4/mp3 files to Word documents.
- Applied **NLP** methods for identifying key insights, enhancing document summarization **efficiency by 70%**
- Led a **4-member team** in technical development, ensuring the timely completion of a fully functional app.