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Deepak Singh

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Education

| **B.A. in Computer Science** | **McGill University** | **Aug 2018 - Dec 2021** |

- Cumulative GPA: 3.96 / 4.00
- Awards: Dean's Honour List
- Relevant Courses: Data Structures and Algorithms, Database Systems, Operating Systems, Machine Learning, Software Design, Algorithm Design

Experience

| **Software Engineering Intern** | **Intact Financial Corporation** | **May 2021 - Aug 2021** |

Python | Gitlab | Huggingface | Docker

- Built an automated machine learning training stage for NLP projects, improving iterative model training by **30%**.
- Developed a Gitlab pipeline allowing users to modify their NLP project dataset with pre-labeled data, used by **2 data science teams**.
- Designed and implemented an automatic recovery system that recovers version-controlled datasets during failures.
- Added **80% unit test code coverage** to an internal application that centralizes the components of NLP pipelines.

| **Software Developer Intern** | **Coveo Solutions** | **May 2020 - Aug 2020** |

Go | Typescript | Jenkins

- Created an automatic OAuth secret rotation mechanism for a microservice, reducing the server load by **3 API calls** per user input.
- Wrote **12 end-to-end Selenium tests** for a front-end product, preventing broken changes from being launched.
- Built a Quickview component in Typescript that allows users to preview PDF, Excel, Word, and HTML documents.

| **Software Developer** | **DeepEmploi** | **Jun 2018 - May 2020** |

Python | Flask | MySQL | Javascript | React | Electron

- Created a MySQL database and Flask server to manage the daily flow of client data, decreasing company account receivables by **$40,000**.
- Built an application that uses handwriting recognition to extract the data of over **5000** physical employee worksheets.
- Improved invoice validation efficiency by **50%** by creating a React user interface for unpaid invoice data.
- Deployed Python workflow automations to streamline employee dispatching, reducing manual work by **40%.**

Projects

Colt Express

Unity | C# | Typescript | Node.js | Express | MongoDB

- Led a team of 5 developers to create the Colt Express board game on Mac and Windows with the Unity engine.
- Developed a RESTful API with Node.js and Express to manage the states of multiple concurrent games.
- Implemented a multiplayer feature that allows up to 6 players to play against each other from separate devices.
- Leveraged a MongoDB database to store the progress of ongoing games, allowing users to save and load games.

Resume Match

Python | Flask | PostgreSQL | React | Javascript

- Collaborated with 4 developers to create a web application that matches resumes to active software job postings.
- Built a Python web scraper that fetches job posting information from 2 sources.
- Utilized a PostgreSQL database to store the data of 10000 job postings.
- Developed an algorithm that scores a user's resume to a job posting based on the job's technical requirements.

Technical Skills

- **Languages**: Python, Java, Go, Typescript, Javascript, C, C++, C#, Bash, SQL, OCaml, MIPS, HTML, CSS
- **Technologies**: Git, Node.js, Express, Flask, Django, React, React Native, Electron, Docker, Jenkins, Linux, Unity