

Sanjeev Kalagony



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EDUCATION & CERTIFICATIONS

University of Waterloo

Sep 2024 - Apr 2029

Candidate for Bachelor's Degree in Mathematics, specializing in Data Science

Relevant Coursework: Designing Functional Programming, Linear Algebra, Graphic Design, Calculus, Microeconomics, Statistics & Probability

PROFESSIONAL SKILLS

Languages: Python, C, C++, HTML, CSS, Javascript, React, Node.js, Typescript, Tailwind CSS, Vite

Development Tools: Git, Figma, Photoshop, Raylib GameEngine, Langchain, Kaggle, AWS, Bash, Pygames, Gemini API, OpenAI API, GCP, Pandas, Seaborn, NumPy, Pytorch

Kaggle & AWS Certifications: Introduction to Python, Python Development, Intro to AWS

RELEVANT PROJECTS

HearMeOut – AI-Powered Interview Assistant @ UofTHacks 12 dorahacks.io

Jan 2025

- Developed an AI-powered platform to improve interview skills by providing personalized feedback and insights from interviewer's POV
- Built backend using **Google Gemini API**, enabling the analysis of resumes and generating unique, role-specific interview questions
- Implemented **Eleven Labs' Voice Cloning API** to create AI-generated responses in the user's voice, offering feedback on tone, clarity, and communication style for enhanced self-awareness.
- Designed and created an intuitive and **responsive web interface** using **React (TypeScript)**, Vite, and libraries like Lucide React and React Router to ensure a seamless user experience.

SkillScan – Personalized AI Career Platform @ Geesehacks devpostlink

Jan 2025

- Designed and **developed an intuitive web platform using React** to enhance the user experience with responsive and clean design.
- Implemented **AI-driven resume analysis using OpenAI's GPT-4 API** to provide users with personalized, actionable feedback.
- Integrated multiple APIs (OpenAI, Google Cloud) to ensure seamless functionality for resume parsing, feedback and question generation.
- Built a **mock interview module leveraging Google Cloud Speech-to-Text** for real-time transcription.
- Optimized browser-based video recording using React Webcam to provide users with realistic, low-latency mock interview experiences.
- Collaborated on technical challenges, including API rate limits, video processing, and error handling, resulting in a cohesive platform.

Data Science Project: Analyzing Spotify Song Trends githublink

- Conducted an **in-depth analysis of 30,000 Spotify songs** to identify trends across various criteria such as popularity, release year etc.
- Utilized **Pandas** and **NumPy** to clean, manipulate, and analyze large datasets efficiently.
- Created insightful graphs using **Matplotlib** and **Seaborn** to showcase trends in tempo, energy, danceability, and other key metrics.
- Discovered correlations between song popularity and audio features, **highlighting patterns in genre trends** over time.
- Optimized data handling using **efficient Pandas operations**, reducing processing time through **batch computations** and minimizing memory usage with **data type optimizations**.

EXPERIENCE

VELOCITY STARTUP INCUBATOR *Cornerstone F24 Participant*

Oct 2024

- Developed a rideshare platform to connect solo commuters with riders, **promoting cost-effective and community-focused commuting**.
- Interviewed 5 companies** and individual commuters to uncover challenges with current commuting options and explored corporate shuttle programs like OpenText's.
- Analyzed interview data to address affordability, reliability, and safety through features like driver documentation and ratings
- Refined platform priorities to include carpooling and shuttle options, aligning with user needs for trust, cost-efficiency, and networking

ILLUMINATE UNIVERSE STUDENT PROGRAMME *Regional Lead*

Jun 2023 - Sep 2023

- Developed** a consulting pitch for Illuminate's marketing team using **marketing data** which aimed to **boost PR by 30%**
- Analyzed** effectiveness of various marketing strategies with **data modeling software** to interpret **trends** in viewership

CITY OF BRAMPTON RECREATION *Swimming/Lifesaving Instructor*

Brampton, ON Jul 2024 - Present

- Conducted swimming lessons for Levels 1-5 and Little Splash 1-5
- Evaluated student performance and established skill level based on predetermined factors

VARSITY TUTORS *Middle-School/ High-School Tutor*

Waterloo, ON Mar 2025 - Present

- Improved student **performance by 20%** through tailored lesson plans, reinforcing fundamentals, and applying real-world problem-solving
- Designed interactive lessons using online tools, visual explanations, and collaborative coding environments to enhance virtual learning
- Built student confidence by teaching critical thinking, test-taking strategies, and study habits for **long-term academic success**.
- Taught Grade 6 to 11 Math, Advanced Functions and Calculus, High-school Physics, English and French

EXTRACURRICULARS + VOLUNTEERING Tutoring Middle School and High School Students

Jun 2023 - Present

Enhanced the learning process of **20 students**; Performance on tests **increased 40%** on average;

Taught Algebra, Advanced Functions Calculus & Vectors, English and Beginner French, and Python Development for **30 students**