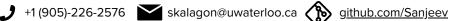
# Sanjeev Kalagony







## **EDUCATION & CERTIFICATIONS**

**University of Waterloo** 

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

Relavent 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, OpenAl API, GCP, Pandas, Seaborn, NumPy, Pytorch

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

# **RELEVANT PROJECTS**

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

Jan 2025

Sep 2024 - Apr 2029

- Developed an Al-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 Al-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 Al 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 Al-driven resume analysis using OpenAl'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;