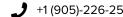
<u>Sanjeev Kalagony</u>









PROFESSIONAL SKILLS —

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

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

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

RELEVANT PROJECTS -

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

Jan 2025

- 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 guestions
- 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

Feb 2025

- 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.

PONG game in C++ githublink

Nov 2024

Developed a version of PONG in C++ using the Raylib engine; Added scoring system and movement mechanics by adding physics

EXPERIENCE -

RESEARCHER TechPlus UWaterloo

May 2025 - Present

- Conducted research and data analysis using Pandas and other Python libraries to assess how underpresented groups are using tech.
- Provide insights through to guide diversity, equity, and inclusion (DEI) initiatives and programming decisions.
- Collaborate with team members to evaluate internal culture and hiring practices for inclusivity and equity.
- Support the development of tech resources to increase accessibility and representation across Tech+ events and outreach.

SPONSORSHIP LEAD NASA Space Apps Waterloo

June 2025 - Present

- Built customized sponsorship packages and pitch decks aligned with partner goals and event audience
- Led outreach, calls, and negotiations to secure sponsor commitments and finalize agreements
- Coordinated with logistics, design, and finance teams to track deliverables and allocate sponsor funding
- Managed sponsor relations before, during, and after the event, ensuring visibility and follow-through

MATH TUTORS Varsity Tutors Waterloo

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

REGIONAL LEAD Illuminate Universe Student Programme

Jun - 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

SWIMMING/LIFESAVING INSTRUCTOR City of Brampton Recreation

Jul 2024 - Present

- Taught swim skills with proper technique, adapting lessons to different learning styles (visual, auditory, kinesthetic).
- Used both direct and indirect instruction to accommodate varied learning needs and assessed student progress

EDUCATION & CERTIFICATIONS —

University of Waterloo

Sep 2024 - Apr 2029

Candidate for Bachelor's Degree in Mathematics, specializing in Data Science Relavent Coursework: Designing Functional Programming, Linear Algebra, Graphic Design, Calculus, Microeconomics, Statistics & Probability