

Karan Anand

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EDUCATION

University of British Columbia

Bachelor of Science, Computer Science & Math

Vancouver, BC

Sep 2022 – Apr 2026

- Science Dean's Honour List (**85%+** average)
- **YouTube** channel, aiding **50,000+** global students, Imagine UBC **Orientation Leader** (Student Orientation Program), Guinness Book of **World Records Holder** (Largest Online Video Competition), **National Science Talent Search Exam Rank 73**, India's **National Topper** in **Computer Science**, Math, Biology (**100%**) and English Literature (**99%**)

EXPERIENCE

VR & AR Emerging Media Software Developer

University of British Columbia

September 2023 – Present

Vancouver, BC

- Collaborated in the development of innovative open-source teaching tools leveraging **virtual reality (VR)** and **augmented reality (AR)** technologies, using **Unity** and other 3D modeling tools such as **Maya** and **Blender**.
- Actively participated in **weekly project team meetings**, sharing insights and progress updates, contributing to the **collective understanding of project milestones and objectives**.
- Played a key role in improving project quality by applying insights from user testing, effectively enhancing user experience and functionality of **VR** and **AR** applications.

Undergraduate Teaching Assistant, First Year Focus

University of British Columbia

September 2023 – Present

Vancouver, BC

- Utilized technical expertise as an **Undergraduate Teaching Assistant for FYF SCIE 100**, driving discussions and activities that built community, resilience, and a seamless transition for 23W first year students within the realm of computer science and math.
- Designed **computer science-infused co-curricular events**, enhancing the learning environment through peer mentoring and study sessions, and effectively managed course content using platforms like **Canvas**.

Student Worker, UBC Alma Mater Society

University of British Columbia

January 2023 – September 2023

Vancouver, BC

- **Managed** and **oversaw** large events and gatherings of over **150+** people, including both UBC AMS events and non-UBC events, ensuring smooth operation, timely execution, and high levels of **customer satisfaction**.
- Demonstrated excellent **customer service** skills while serving over **500+** customers, resulting in positive feedback and repeat business.

PROJECTS

LATER (Listen & Transcribe Easily & Rapidly) | *Python, Google NLP, SpeechRecognition, AudioSegment*

- Created an advanced **audio transcription** solution achieving unparalleled accuracy and speed, incorporating **sentiment analysis** for entity and **sentiment extraction** to enhance comprehension for applications like market research and customer service.

Multipurpose Encryption App | *Java, Advanced OOPs, Java RSA Encryption, Swing, JSON*

- Created an app enhancing **data security** to protect user passwords, providing seamless **encryption** and **decryption**, along with a revamped **UI** for secure **login/signup** and dynamic encryption/decryption actions, effectively fortifying against **vulnerabilities** and modern **cybersecurity** concerns.

Air Quality Analysis in an Italian City | *R, dplyr, ggplot2, broom, infer, confint*

- Analyzed air quality variations between day and night in an Italian city and performed **hypothesis testing** and **bootstrapping** for **statistical analysis**, validated through calculation of **confidence intervals**

[More Projects...](#)

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Unity

Frameworks: React, Node, Express, MongoDB, JUnit, WordPress, Material-UI, FastAPI, JUnit, GDB

Developer Tools: Git, VS Code, PyCharm, IntelliJ

Libraries: NLP, NumPy, Java Encryption, Speech Recognition, Audio Segmentation/Transcription