



Karan Anand

Year 2, Computer Science & Math Combined Major

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TECHNICAL WORK EXPERIENCE

Computing, Hardware and Facilities Assistant

September 2023 – Present

- Conducted daily inspections of 15+ undergraduate labs and learning spaces, ensuring 100% readiness for classes each morning.
- Addressed and resolved technical issues promptly, resulting in a 25% reduction in class disruptions due to hardware malfunctions.
- Maintained meticulous records of 300+ hardware components, contributing to an up-to-date inventory system.

Undergraduate Teaching Assistant, First Year Focus

September 2023 – Present

- 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.

NON-TECHNICAL WORK EXPERIENCE

Student Worker, UBC Alma Mater Society

January 2023 – Present

- 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.

Imagine UBC Orientation Leader

August 2023 – Present

- Directed orientation activities for 200+ new students, facilitating a seamless transition into university life while conducting 15+ informative campus tours.
- Mentored and collaborated with a team of 10 fellow Orientation Leaders, fostering effective teamwork and elevating the quality of the orientation experience.

TECHNICAL PROJECTS

[LATER \(Listen And Transcribe Easily and Rapidly\)](#) | [nwHacks 2023 Hackathon](#)

- Developed an efficient audio transcription project using **Python**, **Google Natural Language API**, **SpeechRecognition library**, and **AudioSegment library** to transcribe audio with unprecedented accuracy and speed.



- Implemented **sentiment analysis** feature to extract entities and sentiments from the transcription, providing a deeper understanding of the audio content, which can be used in various applications such as market research and customer service.

Multipurpose Encryption App

- Designed a **Java desktop app** employing **RSA encryption** (Java Encryption Library) to enhance **data security of user's passwords**, fortifying against vulnerabilities with seamless encryption and decryption features to tackle modern cybersecurity concerns.
- Revamped **Java Swing UI** for uninterrupted user engagement, integrating secure login/signup and dynamic encryption/decryption actions.

Air Quality Analysis in an Italian City

- Analyzed air quality variations between day and night in an Italian city using **data science** in **R programming** and "**dplyr**" and "**ggplot2**" libraries for data preprocessing and visualizations.
- Employed **hypothesis testing** (**broom** and **infer** libraries) and bootstrapping for statistical analysis, further validated through calculation of confidence intervals ("**confint**").

[More Projects...](#)

TECHNICAL SKILLS

Programming Languages: Java, Swing, C/C++, Python, R, HTML5, CSS, JavaScript, Unity

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

Testing: JUnit, GDB, TDD, writing test plans

EDUCATION

University of British Columbia, Vancouver

September 2022 – April 2026

Bachelors of Science – First Year Focus 2022

Combined Major in Computer Science & Math

GPA: 4 (90%+ for computer science and math courses)

ACHIEVEMENTS

- **Dean's Honour List, UBC 2022-23**
- Oversaw "Karan Anand" **YouTube** channel, catering to 6500+ subscribers, 600,000 student viewers, and 10 million impressions, providing academic support and assisting 50,000+ students globally in English, Maths, Physics, Chemistry & Computer Science.
- **Guinness Book of World Records Holder** at the World's Largest Online Video Competition
- **All India Rank 73** in National Level Science Talent Search Examination
- **India's National Topper** in Computer Science, Maths and Biology with 100% marks and 99% in English Literature