

# Kunal Kumar

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## EDUCATION

### Cambridge Institute of Technology

Bachelor Of Engineering in Computer Engineering - CGPA - 8.2/10

Bangalore, Karnataka, India

2020 – 2024

### St. Paul Senior Secondary School

XII(CBSE) - Percentage – 75%

Samastipur, Bihar, India

2019 – 2020

## EXPERIENCE

### Associate Software Engineer

Oct 2024 – Present

#### Aviara Labs Pvt. Ltd.

- Developed responsive, user-friendly interfaces using HTML, CSS, JavaScript and React framework.
- Collaborated with backend and design teams for seamless integration and enhanced user experience.
- Optimized frontend code for performance and cross-browser compatibility.

### Associate Software Engineer – Intern | Bixby, Samsung's virtual assistant

May 2024 - Oct 2024

#### Samsung R&D Bangalore, India

- Worked in the Voice Intelligence Team, Integrating Generative Speech AI (LLM) into Bixby, Samsung's Virtual Assistant.
- Worked on the Bixby Studio to solve real time bugs and added trainings to improve the Voice Assistant.
- Worked in the Voice Intelligence Team, part ASR (Automatic Speech Recognition), understood ASR end to end concepts.
- Tech Stack - SQL, TypeScript, JavaScript, JSON, Git, RAG techniques.

### Intern

July 2023 - Dec 2023

#### Samsung Prism Bangalore, India

- Partnered with a four-member team on Samsung Prism's "Cloud-Based Processing Simulation project," achieving a notable 30% improvement in overall system performance.
- Enhanced the codebase's scalability and security by implementing additional security checks and eliminating approximately 150-200 lines of redundant code.
- Contributed to the development of client-server architecture, enabling unary, client streaming, server streaming, and bidirectional streaming for seamless communication between components, resulting in a 65% efficiency improvement in processing media files within a cloud-based environment.
- Tech Stack - Python, gRPC, Android Studio.

## PROJECTS

### Desktop voice assistant / Python, pytsx3 library, Wikipedia API, NLTK and Git

- Developed a desktop voice assistant by integrating a robust set of Python libraries, such as Speech Recognition, pytsx3, pywhatkit, and Wikipedia API, delivering a sophisticated, multifunctional voice-controlled interface.
- Attained over 75% efficiency in speech recognition by carefully optimizing and selecting the most effective Speech Recognition engines.
- Surpassed 60% efficiency in executing natural language processing tasks, including tokenization, enabling the voice assistant to accurately parse and comprehend complex user input.

### Movix Web App / HTML, CSS3, JavaScript, React, Redux and Git

- Developed a responsive React web application for movies, seamlessly handling 1000+ visitors per hour, enjoy a user-centric design, personalized recommendations, and a vast library for an unparalleled streaming experience.
- Executed the implementation of a project utilizing agile methodology, resulting in a 30% reduction in project time and enabling seamless support for incremental changes.
- leveraging Axios to fetch data from a REST API, implementing custom hooks for efficiency, crafting a carousel/slider without libraries, and achieving seamless infinite scrolling, supporting thousands of items.

## TECHNICAL SKILLS

**Programming:** Python, Java, CSS, JavaScript, SQL

**Tools & Frameworks:** Git, Android Studio, React, NodeJS

**Soft Skills:** Written And Verbal Communication (Hindi and English)