

# Anirudh Srinivasa Raghavan

848-391-4742 | [anirudhraghavan2000@gmail.com](mailto:anirudhraghavan2000@gmail.com) | [linkedin.com/in/anisrirag](https://www.linkedin.com/in/anisrirag) | <https://anirudhraghavan.me>

## EDUCATION

### Rutgers University

*Masters of Science, Computer Science*

### PES University

*Bachelors of Technology, Computer Science*

New Brunswick, New Jersey

*Aug. 2022 – May 2024*

Bangalore, India

*Aug. 2018 – May 2022*

## EXPERIENCE

### Software Engineer Intern - Android OS

Jan 2022 – July 2022

*Zebra Technologies*

*Bangalore, India*

- Developed an open-source VCS for Android build sources, automating scanning and analysis of applications, resulting in a 70% reduction in manual testing effort for individual applications in a build
- Built highly scalable RESTful APIs using Django REST framework, Docker, and Kubernetes, handling over 1 million requests per day and ensuring seamless integration between systems
- Implemented advanced data querying and reporting techniques using SQL, generating comprehensive reports on app security, permissions, and releases for each build source program, enabling data-driven decision-making and enhancing overall app quality

### Undergraduate Research Assistant

Aug 2021 – Dec 2021

*Indian Institute of Science - ZEN Labs*

*Bangalore, India*

- Developed a SpeechToText model for Boeing Inc, combining 5000 hours of unbiased dataset and generating 10% more data using selected YouTube videos for enhanced training
- Optimized Mozilla's deep speech model with CTC Beam Decoder for noisy airplane environments, achieving a 20% increase in recognition performance compared to the unmodified model
- Improved speech recognition accuracy in noisy airplane environments (60% SNR) by 15%, utilizing additional noises in the dataset, applying DeepDenoiser for noise reduction, and conducting rigorous testing

### Student Researcher

May 2021 – Jul 2021

*Athabasca University - Mitacs Fellowship*

*Edmonton, Canada*

- Revamped and deployed an innovative, personalized recommendation system for the Next Stop mobile app, leveraging advanced technologies like React Native and MongoDB. This resulted in a significant increase in the AUC score to 0.88
- Implemented a cutting-edge Open Street Maps Synchronization service using PHP and Cron jobs to automate the updating process of offline location data. This streamlined the app's functionality and improved efficiency
- Made significant contributions to the codebase by adding over 10,000 lines of top-quality code via Git. These contributions significantly improved the app's performance and stability

## PROJECTS

### Gesture Recognition using Graph Methods

Aug 2021 – May 2022

- Developed and implemented the graph cut algorithm using multithreading architecture, resulting in a significant improvement in processing speed and accuracy.
- Conducted rigorous testing with the deep learning classification method, achieving impressive results with an accuracy rate of 90%. Authored a Research Paper and won the best Oral Presentation award - ICIEA 2022

### Pressure2Path | *FastAPI, Java, Maven, GCP, Git*

May 2018 – May 2020

- Developed a mobile application using Java and Android SDK to track GPS location and pressure sensor values every few milliseconds, resulting in the generation of a dataset for algorithm testing
- Designed and implemented a predictive algorithm for location based on pressure sensor data, achieving satisfactory results during testing. Built a multithreaded mobile app that performed computations on a cloud machine to provide accurate GPS location predictions in real-time.

## TECHNICAL SKILLS

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

**Frameworks:** React, Node.js, Flask, JUnit, Django, FastAPI

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib