Anirudh Srinivasa Raghavan

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Education

Rutgers University — New Brunswick, New Jersey
*Masters of Science, Computer Science — **CGPA**: 3.78* — ***Aug. 2022 – May 2024***

PES University — Bangalore, India
*Bachelors of Technology, Computer Science — **CGPA**: 8.68* — ***Aug. 2018 – May 2022***

Technical Skills

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, Kotlin, Rust, Go
Frameworks/Libraries: React, Angular, Node.js, Flask, JUnit, Django, FastAPI, TensorFlow, PyTorch, Spring Boot, Vue.js
Developer Tools: Git, Docker, Kubernetes, AWS, Azure, Google Cloud Platform, Jenkins, GitLab CI/CD, VS Code, IntelliJ IDEA
Blockchain Technologies: Ethereum, Solidity, Smart Contracts, Corda, Hyperledger

Experience

Global Technology Intern — **November 2023 – Present**
Colgate-Palmolive — *New Jersey, USA*

- Developed machine learning algorithms for a dental hygiene tool, significantly enhancing its ability to accurately detect and analyze the specific areas of the teeth being brushed
- Innovated in brush orientation analysis with a 2DOF IMU Sensor algorithm, contributing to advanced brushing technique insights
- Innovated a mobile application that autonomously collects toothbrush data, greatly increasing user convenience by eliminating the need for manual data input and enhancing overall brushing experience

Software Engineer Intern — **Jan 2022 – July 2022**
Zebra Technologies — *Bangalore, India*

- Developed and introduced an open-source version control tool for Android platforms, resulting in a substantial 70% reduction in manual testing workload for app development cycles
- Engineered scalable APIs using Django, Docker, and Kubernetes, effectively handling high volumes of concurrent requests.
- Implemented SQL for in-depth data analysis on application security, permissions, and releases, leading to notable improvements in app quality

Undergraduate Research Assistant — **Aug 2021 – Dec 2021**
Indian Institute of Science - ZEN Labs — *Bangalore, India*

- Developed SpeechToText model for Boeing with 5k hours of data, enhancing its training capabilities with YouTube video integrations.
- Optimized Mozilla's model for airplane noise, boosting recognition by 20% with CTC Beam Decoder.
- Improved recognition accuracy in 60% SNR airplane noise environments by 15% through the use of DeepDenoiser and enriched data sets, marking a significant advancement in noise handling capabilities.

Student Researcher — **May 2021 – Aug 2021**
Athabasca University - Mitacs Fellowship — *Edmonton, Canada*

- Implemented a tailored recommendation engine for the Next Stop app utilizing React Native and MongoDB, significantly enhancing user experience with personalized content
- Revolutionized location data handling in offline mode using Open Street Maps, PHP, and Cron jobs, substantially boosting app functionality and efficiency
- Contributed over 5,000 lines of code through Git, playing a key role in elevating the app's performance and stability.

Projects

Revolutionizing Loan Processes with Corda Ledger — Corda, Blockchain, Kotlin, REST APIs

- Developed and integrated Corda ledger, a blockchain-based system, to modernize and secure the loan process, ensuring transparent and efficient transactions.
- Leveraged REST APIs and smart contracts within the blockchain framework to ensure regulatory compliance and stakeholder consensus in financial dealings.

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

- Built a Java mobile app using Android SDK for GPS and pressure data collection, aiding algorithm testing.
- Created a location prediction algorithm using pressure data, paired with a cloud-computed multithreaded app for real-time GPS accuracy.