# NIRAN N

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#### Education

REVA University

Aug. 2018 – July 2022

Bachelor of Technology in Electronics and Communication - 9.3 CGPA [Best Outgoing Student]

Bengaluru, India

## Experience

#### Samsung Research Institute

February 2023 – Present

Pro Engineer - Visual Intelligence

Bengaluru, India

• Part of the R&D team responsible for developing Camera AI and Visual Understanding. Extensively involved with the HQ for developing the flagship feature - SmartScan and AI Dewarping for Samsung Camera & Notes

Informatica August 2021 – February 2023

Software & Systems Engineer

Bengaluru, India

- $\bullet \ \ \text{Worked with the Product Team to create, develop \& manage python libraries for various critical automation and tasks.}$
- Redesigned the Production-Level code for introducing XML-based data input for Application Integration.

### REVA Academy for Corporate Excellence

February 2020 - July 2022

AI, ML & Cybersecurity Teaching Assistant

Bengaluru, India

## **Projects**

AI for Wind Energy - FruitPunch.ai | Tensorflow, Keras, SciKit, XGBoost, Python, Git, Numpy, etc January 2022

- Collaborated with more than 30 AI developers from around the world to apply AI to extend the life of wind turbine blades by detecting damage using ambient vibration data. Operated on two huge Turbine Datasets and it's metadata.
- Designed & Trained DL models to detect Damage on the blades. Tested the use of PyCaret for Anomaly Detection.

Wang Reda | DialogFlow, OpenCV, Yolov3, Google Assistant, Python, NLP, Pandas

June 2020

- Developed a Conversational bot for monitoring social distancing in a campus, assisting users, and patrolling the area
- Utilized Yolov3 and OpenCV to detect distance b/w individuals and alert if Social Distancing wasn't followed.

Encrypton | Python, AES, Bootstrap, HTML/CSS/Javascript, Flask, Heroku

July 2021

- Built a responsive completely-cloud Web App that allows users to encrypt/decrypt any kind of file with a password.
- The downloaded encrypted file can be safely shared with others. Only the same password can decode an encrypted file.

Other Projects: Japan Habba.org, Dev Hub, Obstacle Avoidance Robot, LMS, Automated Gas Stove & Soil Analyzer

#### Patent & Research Papers

- International Innovation Patent (AU) Real-time Emotion Detection and Multimodal Interview Preparation System
- ASIANCON 2022 Drone-based Detection & Geo-Mapping of Wastes, Weeds & Diseases in Plants using Deep Learning
- CoCoNet'19, Elsevier Microstrip Patch Antenna Design for Fixed Mobile and Satellite 5G Communications
- IJSTM 2021 Criticality of SMS Encryption and its Importance for Genuine Two-Factor User Authentication

#### Technical Skills

Languages: Python, C, Java, HTML/CSS, JavaScript, Typescript, Kotlin, PHP, XML, SQL

Technologies/Frameworks: Tensorflow, ML, Linux, Flask, Django, Arduino, ROS, Bootstrap, React, Next, IoT, HFSS

Certifications: Google Certified Tensorflow Developer, Microsoft Technology Associate, GCP

Other Skills: Piano, Japanese (Pursuing JLPT N3), Tennis, Event & Team Mamagement, Leadership, Public Speaking

### Leadership / Extracurricular

# Google Developer Student Clubs & Hackathon Club

Fall 2019 - Summer 2022

Club Lead & HRC Core Committee

REVA University

- Led a Google Tech community for passionate developers. Overall 1,000+ club members and 15,000+ students benefited.
- Organized 30+ events & workshops, Oversaw 2 Large Developer conferences <u>Google DevFest & Developer Weekend</u> and hosted 5 National level hackathons. DSC WOW, REVA HACK 2020/21, SIH 2020 & Solution Challenge 2021

# IEEE Student Branch

Jan. 2021 – Jan. 2022

Vice Chair REVA University

• Drafted the technical activities. Facilitated 15+ events. Chair of ECIM Committee at ICAECC '22 Intl. Conference.