

# Anirudh Prabakaran

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## EDUCATION

### NIT - TIRUCHIRAPPALLI

#### B.TECH. IN COMPUTER SCIENCE

Graduated May 2018 | TN

Cumulative GPA: 8.18

### PSBB SR SEC SCHOOL

Graduated May 2014 | Chennai

AISSCE Class XII CBSE: 95.8%

## COURSEWORK

### UNDERGRADUATE

Data Structures and Algorithms

Image Processing

Natural Language Processing

Operating Systems

Database Management Systems

Computer Networks

## SKILLS

### PROGRAMMING

Languages:

- C/C++ • Python

## RECENT AWARDS

### PROFESSIONAL CERTIFICATE

- For strong algorithmic competency among Samsung engineers globally.

### SPOT AWARD

- For outstanding contribution in Samsung. [Link]

## EXTRA-CURRICULAR

### SAMSUNG

- Member, Cricket Team

### UNDERGRADUATE

- Head, Publicity, College Culturals
- Head, Marketing, CSE Symposium
- Dept. Coordinator, College Sports Fest
- Member, Chess Team
- Member, Coding Club (Delta)

### VOLUNTEER

- Teaching Volunteer, MAD. [Link]

## WORK EXPERIENCE

### IRON MOUNTAIN | MACHINE LEARNING ENGINEER | INSIGHT DIVISION

September 2020 - June 2021 | Bangalore, India

- Research/Implementation of models in Document Understanding (splitting, classification and entity extraction/validation). (PyTorch)
- Built a human-in-loop, event-driven, scalable pipeline using above models to process client data. (Docker, Google Cloud, TorchServe)

### SAMSUNG RESEARCH INSTITUTE BANGALORE | SENIOR SOFTWARE ENGINEER | IOT PRODUCTS AND PLATFORMS DIVISION

July 2018 - August 2020 | Bangalore, India

- Research and commercialization of home monitoring solutions powered by Artificial Intelligence (Python, TensorFlow, C++)
- WebRTC development to build an SDK for IoT devices enabling p2p communication. (C++)
- Commercialization of VoWiFi feature in the Galaxy SmartWatch series. (C++)
- Active contribution to IP and innovation through patent proposals, ideation contests and internal hackathons.
- Built a web prototype of a keyboard model for auto-correction and next-word prediction (Summer Internship - 2017). (Python, Javascript)

## RECENT PROJECTS

### DETECTING ANOMALOUS CONTENT FROM VIDEOS (2019)

- Built a network incorporating cues from 3D Convolution features, to capture anomalous segments from surveillance videos.
- [Publication] accepted and presented at ICInPro-2019.

### REAL-TIME HOME AUDIO MONITORING SYSTEM (2019)

- Built a CNN on top of a pre-trained model using Mel features, to target sounds like baby cry, dog bark, glass break etc.
- Solution was successfully ported on Samsung's home assistant and demonstrated during a workshop in South Korea (HQ)

### CRICBOARD (2021)

- Cricket stats [website]. Gathered 30K+ page hits on IPL Day 1.

### BERKELEY DEEPRIVE EXPERIMENTATION (2021)

- Trained a network built over FasterRCNN to issue simple count queries over a driving video dataset. See [repo]

### PRODUCTIVITY CHATBOT (2021)

- Demonstrated the ability to learn simple actions (commits, deploys, logging, monitoring, etc.) from users and reuse [Link]

### SUBWAYSURFER (2020)

- OpenCV prototype to play subway surfer with specific body actions. See [repo]