

# Anirudh Prabakaran

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## EDUCATION

**MS in Computer Science** | Georgia Institute of Technology | GPA: 4.0/4.0

Aug 2021 — May 2023

- **Specialization:** Machine Learning
- **Courses:** Intro to Grad Algorithms, Computer Vision, Machine Learning, Natural Language
- **Graduate Teaching Assistant:** Intro to Database Systems (Fall 2021, Spring 2022)
- **Academic Projects:**
  - JingleCraft: An in-depth analysis of various ML algorithms for Music Classification problem statements. (CS 7641) [link]
  - EmojiPrediction: Analysis of recurrent neural networks for emoji category and position prediction in text passages. (CS 7650) [link]

**B.Tech in Computer Science** | National Institute of Technology - Tiruchirappalli | GPA: 8.18/10.00

Jul 2014 — May 2018

- **Courses:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks.

## WORK EXPERIENCE

### Meta

May 2022 — July 2022

Software Engineer Intern | Stories Ranking

Menlo Park, CA

- Working on end-to-end ML pipelines for improving music recommendations on Facebook/Instagram Stories.

### Iron Mountain

Sep 2020 — Jun 2021

Machine Learning Engineer | Insight

Bangalore, India

- Involved in research and implementation of solutions in Document Understanding (splitting, classification, entity validation/extraction). Actively participated in weekly meetings to present latest papers and demonstrate prototypes.
- Designed and engineered a human-in-loop, event-driven pipeline on GCP to process documents using in-house models. By not relying on Cloud AI APIs, we saved significant costs to the company and also helped replicate the architecture to other verticals.

### Samsung Research Institute Bangalore

Jun 2018 — Aug 2020

Senior Software Engineer | IoT Products and Platforms

Bangalore, India

- Contributed to research, commercialization and debugging of Home Monitoring solutions integrated with SmartThings.
- Spearheaded a research proposal to identify anomalous segments from surveillance videos. Used C3D to extract spatiotemporal features from video segments and fed them into a CNN to assign regression scores. Presented this publication in a conference. [link]
- Developed an SDK for IoT devices enabling p2p communication using WebRTC with a team of 8 members. By avoiding servers during streaming, this SDK helped to significantly lower latency and reduce server costs.
- Received a spot award for developing an emergency home audio monitoring engine, targeting common household sounds. This solution was successfully ported in our home assistant and demonstrated during a workshop at HQ, Korea. [link]
- Finalist in an internal hackathon among 100+ teams for building and prototyping a chatbot to boost employee productivity. It had the ability to keep track of tasks, learn simple daily actions and execute them again in a user-friendly chat interface. [link]
- Awarded the Samsung professional certification for strong algorithmic competency, given to engineers globally.

## RECENT PROJECTS

### Exploratory Video Analytics [link]

2022

- EVA is a visual data management system. It supports SQL-like syntax and many commonly used computer vision models.
- Built with Python, Petastorm, (storage), PySpark (execution), PyTorch (CV/ML) and SQLite (underlying DB).
- Working with the Georgia Tech DB research group under Prof. Joy Arulraj, primarily contributing from the ML side.

### Cricboard [link]

2021

- Built a statistics website targeted towards fantasy players, to visualize interesting cricket insights in an interactive and dynamic UI.
- This webapp was made with Python, Streamlit and hosted with AWS. Data was scraped from cricinfo and cricsheet.
- Gathered 30k+ page hits on the opening day of IPL and received a daily average of 2k hits during the tournament.

## TECHNICAL SKILLS

**Programming Languages** Python, C++, SQL

**Frameworks and Tools** PyTorch, Docker, Git

## VOLUNTEER AND EXTRA-CURRICULAR

- **Teaching Volunteer, Make a Difference:** Taught classes weekly for school kids belonging to various shelters in Bangalore. [link]
- **Head, Publicity Team, College Cultural Fest:** Headed a team of 50 members, to increase brand value and participation for the fest.
- **Department Coordinator, College Sports Fest:** Managed participation and activities of the CS department during the fest.
- **Web Developer, College Coding Club:** Involved in development of various internal projects, events and mentor-ship programs.
- **Sports Contingent:** Represented college in the Chess team, and the department in Cricket and Soccer.