

# Aniruddha Patil

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github.com/aniruddhavpatil

## Education

**Indiana University Bloomington** May 2021  
*Master of Science in Computer Science - 3.79 GPA*

**International Institute of Information Technology** May 2019  
*Bachelor of Technology in Computer Science and Engineering (Honors in Computer Vision)*

## Technical Skills

**Programming Languages:** Python, C++, C, Javascript, Java, Bash, C#, Racket

**Frameworks and Libraries:** React, Node, Firebase, React Native, MongoDB, Agile, Scrum, Docker, Unity

**Relevant coursework:** Software Engineering, Distributed Systems, Operating Systems, Data Structures, Algorithms

## Experience

**Indiana University Bloomington** January 2021 – present  
*Web Developer* Bloomington, Indiana

- Developed the virtual experience portal for incoming graduate students to get familiar with the university and campus life.
- Created using **IU Web CMS Framework**, **HTML**, **CSS**, and **Javascript**.

**Urspace Labs** July 2020 – August 2020  
*Software Engineering Fellow* Los Angeles, California

- Led the engineering of TrendBend, a community-based habit development progressive web application to help users maintain a desired lifestyle using **React**, **Node**, **Firebase**, and **MongoDB**.
- Played a key role in development, code reviews, design feasibility analysis, and managing engineering sprints.

**Intel Corporation** June 2018 – July 2018  
*Machine Learning Intern* Bangalore, India

- Compiled an extensive survey on joint object detection and pose estimation research harnessing monocular vision.
- Published and presented at the **MATEC Web of Conferences (JCMME 2018)**.

**Center for Visual Information Technology** May 2017 – May 2019  
*Undergraduate Student Researcher* Hyderabad, India

- Worked with NVIDIA's Deep Learning Dataset Synthesizer to synthesize scenes for autonomous driving research.
- Built an **Android** app using **Tensorflow Lite** to process and analyze facial expressions and actions of drivers.

**Froogal** May 2017 – July 2017  
*Software Development Intern* Hyderabad, India

- Developed the Froogal app, a digital loyalty program enablement application for businesses with **React Native**.
- Launched on the Google Play Store (10k+ downloads) and the Apple App Store.

## Projects

**Airavata – Apache Foundation** April – June 2020

- Integrated Google Drive support into the Managed File Transfer component of Airavata, a distributed computing platform for large-scale applications, adding to cloud storage options of applications powered by Airavata.
- Leveraged Google Drive's Service Account **API**, **Consul**, **gRPC**, and **Spring Boot**, implemented in **Java**.

**AhaEvent – Forksociety** June 2020

- Architected a **Firestore** solution for AhaEvent, an open-source platform showcasing a curated list of technology events.
- Established **CI/CD** pipelines in **Python** to automate serverless interaction with Firestore upon incoming contributions.

**Weather Data Gateway** January – May 2020

- Designed and developed a full-stack microservice-based gateway for providing NEXRAD weather data hosted on **AWS**.
- Built using **Apache Kafka**, **MongoDB**, **MySQL**, **Spring Boot**, **React**, **Docker**, and **Maven**.

**Data Annotation Tool – Microsoft Research India** June – July 2017

- Delivered a portal facilitating the annotation of the 1.2TB sized proprietary HAMS video dataset using **React** and **Express**.
- Reduced annotation time by 60% to aid driver assistance systems research.