

Anmol Anand

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EDUCATION

Texas A&M University, College Station, TX
Master's in Computer Science

Aug 2022 – May 2024
GPA: 4.00

Indian Institute of Technology, Roorkee
Bachelor's in Computer Science

Jul 2015 – May 2019
GPA: 3.38

WORK EXPERIENCE

Goldman Sachs | *Software Engineer II*

Jun 2019 – Jun 2022

- Contributed to Search Engineering team's **natural-language, petabyte-scale, distributed, search engine**.
- Improved search result quality by 48% and summarized results which could go upto a billion documents.
- Reduced average retrieval latency by a factor of 50 through algorithmic improvements.
- Pre-processed large datasets via batch-processing offline jobs.

Magna International | *Data Scientist Intern*

May 2023 – Aug 2023

- Developed a vision-focused **app for image segmentation and classification** using Node.js, React, PyTorch.
- Enabled capturing camera images from the UI, and storing on Local or Azure platforms.
- Included an intuitive user interface for annotating and labelling images.
- Allowed training and deployment of renowned models such as AlexNet, ResNet from the UI.

Goldman Sachs | *Software Engineer Intern*

May 2018 – Jul 2018

- Kronos – Scheduler for Hadoop jobs**: Developed a scheduler for a wide variety of batch-processing map-reduce jobs. Automated and monitored months of work through a well-encapsulated program.

ACADEMIC EXPERIENCE

Data Integration, Visualization & Exploration Lab | *Open Source Contributor*

Jan 2023 – Apr 2023

- Strengthened DIVE into Graphs (a deep learning library) with GraphAug: a Graph Augmentation method employing Graph Neural Networks. Elevated graph classification performance by generating augmented samples.
- Produced Python library documentation for the GraphAug implementation.

Programming and Algorithms Group, IIT Roorkee | *Core Member*

May 2016 – May 2019

- Conducted lectures on Data Structures and Algorithms.
- Organized on-campus programming contests - Insomnia, CodeBlitz, and CodeCipher.

Indian Institute of Technology | *Teaching Assistant - Discrete Structures*

Jan 2019 – Apr 2019

- Provided assistance to students with course materials, graded assignments, and facilitated discussions.

PROJECTS

CodeJudge - Competitive Programming WebApp — [GitHub](#)

- Built a Competitive Programming Platform written in Ruby on Rails, deployed using Docker and Heroku.
- Empowered instructors to create problems while enabling students to solve in preferred programming language.
- Implemented real-time code evaluation, developed a leaderboard, and integrated a collaborative discussion forum.

Fast image classification using ResNet variant — [GitHub](#)

- Developed an advanced image classification model using a novel ResNet variant.
- Achieved an impressive accuracy of 93.56% on the CIFAR-10 dataset in 90 epochs, addressing challenges such as slow convergence.

A novel graph clustering method — [Paper](#)

- Introduced a novel k -way graph conductance function to measure quality of a k -clustering on a graph.
- Compared its effectiveness in finding k -clusters to existing k -way conductance functions.
- Gave a novel proof for a k -way Cheeger's inequality on this conductance function.

TECHNICAL SKILLS

Software: Ruby on Rails, Golang, Node, Python, JavaScript, React, NextJS, NodeJS, Docker, Kubernetes, Heroku, Agile

DBs & Cloud: Postgres, SQL, MongoDB, Redis, AWS, Azure, GCP, OCI

ML: Jupyter, Tensorflow, Keras, PyTorch, PyTorch Geometric, Graph Neural Nets, Convolutional Neural Nets, Vision

Data: Apache Hadoop, Map Reduce, Protocol Buffers, ANTLR, Information Retrieval, Big Data

ACHIEVEMENTS

Codeforces: Max rating 2008 (Candidate Master)

Codechef: Max rating 2172 (5 stars)

Texas A&M University: **International Graduate Student Scholarship** (2022-2024)

Represented IIT at **ACM-ICPC India** on-site regionals

IIT Joint Entrance Exam (2015): **All India rank 502** out of 1.2 million candidates