

# Akhil Manoj

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## EDUCATION

### New York University, Tandon School of Engineering

New York City, U.S.A

*Master of Science, Computer Engineering*

*Expected May 2026*

- GPA: N/A (First Semester)

### Indian Institute of Technology, Dharwad

Karnataka, India

*Bachelor of Technology, Mechanical Engineering*

*Aug 2018 – May 2022*

- GPA: 8.9/10

## EXPERIENCE

### Software Development Engineer

June 2022 – June 2024

*Gupshup*

*Bengaluru, India*

- Led the development of the **Ad-creation feature** within the Gupshup platform, enabling the creation of multimedia Facebook ads directly from Gupshup.
- Designed and implemented a service to fetch **real-time ad insights**. Improved service efficiency by introducing batch requests, rate limiting, and notifications. This significantly improved the timeliness and accuracy of data for **25 business clients** managing over **2000 Facebook ads**.
- Cut deployment time by **55%** through custom Docker images, improving the application deployment process.

### Full-Stack Web Developer Intern

June 2021 – August 2021

*Axidio*

*Bengaluru, India*

- Contributed to the **development of the partner portal**, enabling partners of the company to track their products, access materials, and communicate with stakeholders.
- Revamped the front-end screens with **efficient state management** improving the application's performance and maintainability.
- **Developed portal authentication** including both in-app and third-party login options.

## RESEARCH

### User generated 3D splines for AR applications

April 2021 – November 2021

*Adviser: Prof. Samarth S. Raut, Indian Institute of Technology, Dharwad*

*Dharwad, India*

- Conducted a literature review on **three-dimensional curves in computer graphics** and created a web application for creating and manipulating splines on a 3D canvas.
- Implemented a sketching tool for precise 3D hand gesture inputs, and optimized the application's performance by improving the frame rate by **25% through multithreaded I/O operations**.

## PROJECTS

### Web-based Chess Engine | Javascript/JQuery, HTML/CSS, Heuristic Algorithms

Jan 2022 – March 2022

- Built a Chess Engine to calculate the optimum next move using the **Minimax algorithm**, with heuristics based on board-position and piece-values.
- Enhanced search efficiency with **Move-Ordering and Alpha-Beta pruning**, enabling the engine to beat a 2000 ELO bot on Chess.com
- Developed a web-based front-end for real-time gameplay and project demonstrations directly from the browser

## EXTRACURRICULAR AND VOLUNTEER EXPERIENCE

- **Technical Team Lead, Career Development Cell, IIT Dharwad:** Led a team of 7 for the development of the campus recruitment web application which is currently used by more than **200 on-campus students**
- **Robotics Club Team Member:** Participated in the Inter-IIT techmeets and helped organize robotics events at PARSEC, the annual technical festival of IIT Dharwad having a turnout of around **400 people**

## TECHNICAL SKILLS

**Programming Languages,:** Java, C/C++, Javascript, Python

**Tools and Frameworks:** REST APIs, Git, Numpy, Matplotlib, Matlab, Springboot, SpringCloud, MySQL, Docker, Redis, RabbitMQ, React, Redux, TailwindCSS, AWS