



# Anish

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## Education

**Indraprastha Institute of Information Technology, Delhi**  
B.Tech in Computer Science Engineering

Aug 2022 – Jun 2026  
CGPA: 7.11/10

**Tinu Public School**  
CBSE - Class 12 (PCM + CS)

Apr 2021 – Feb 2022  
Percentage: 91%

**Tinu Public School**  
CBSE - Class 10

Apr 2019 – Mar 2020  
Percentage: 77%

## Skills

**Programming Languages:** Python, Java, C++, C, Kotlin, JavaScript, HTML, CSS, SQL

**Frameworks & Libraries:** ReactJS, ExpressJS, NodeJS, JavaFX, Jetpack Compose, Matplotlib, NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow

**Tools and Technologies:** Git/GitHub, MySQL Workbench, Google Colab, VS Code, IntelliJ, Ubuntu (WSL), PyCharm, NS-3, Figma, Canva, Docker, Firebase, Nginx, PM2

**Technical Areas:** Machine Learning & NLP, Data Structures and Algorithms, Operating Systems, Computer Networks, Algorithm Design and Analysis, Database Management Systems, Information Integration and Applications, Artificial Intelligence, Mobile Computing

## Work Experience

**Full-Stack & Security Engineer - Research to Commercialization**

May 2025 – July 2025

**Advisor:** Dr. Anuj Grover

**Technology Stack:** React.js, Node.js, Express, FastAPI, Docker, MongoDB, Firebase

**Website:** [r2c.iiitd.edu.in](http://r2c.iiitd.edu.in)

- Built a secure full-stack portal with React.js, Node.js, and MongoDB for researchers to upload studies and auto-populate metadata using an integrated Python-based model
- Strengthened data protection by implementing comprehensive security protocols, including Firebase Auth, rate limiting, and encrypted storage, with zero reported data breaches throughout the project

**Platform Developer - Office of Tech Transfer & Management, IIIT-Delhi**

Jan 2025 – Apr 2025

**Technology Stack:** MERN Stack, Kotlin, XML, Python, RAG, Firebase, Nginx, PM2, Excel Automation, React Admin, FastAPI

**Website:** [otmt.iiitd.edu.in](http://otmt.iiitd.edu.in)

- Led full-stack development of the OTMT platform, building a MERN web app, a Kotlin/XML Android app, and a React-based admin dashboard
- Developed an automated brochure generation tool that auto-populated designed templates using Excel inputs and backend data mapping
- Integrated a RAG-based chatbot for user queries and managed production deployment using Nginx and PM2; handled outreach and user onboarding

**EpicQuest Learning - Lead Teaching Assistant**

May 2024 – May 2025

- Collaborated with Mr. Tilak Mishra (University of Pennsylvania alum), CEO of the firm, to design and deliver comprehensive app development curriculum for over ten high school and university students; enhanced student learning outcomes, resulting in a 20% increase in sign-ups and student engagement
- Conducted in-depth research on emerging solutions for SDGs and implemented app development and design thinking strategies for students to build and grow their leadership projects

## Projects

### Document Scanning Android App

Jan 2025 – Apr 2025

**Technology Stack:** Kotlin, Jetpack Compose, C++, Google ML Kit

Individual Project

- Developed a native Android document scanning app achieving 98% OCR accuracy and 90% text-to-speech clarity using Google ML Kit
- Automated edge detection and enhancement, reducing manual crop time by 75%

### Deception Detection in Diplomacy Dialogues

Jan 2025 – Apr 2025

**Technology Stack:** Python, TensorFlow, GCNs, NLP, Transformers

Team Project (Size: 2)

- Architected a hybrid deep learning model combining a Transformer encoder for text with Graph Convolutional Networks (GCNs) to process contextual game-state graphs for deception detection
- Preprocessed a dataset of 17,000+ messages; applied down-sampling to address class imbalance, achieving **85.8% accuracy** and a **0.60 Macro F1-score** on the held-out test set

### Advanced NoC Design & Simulation

Aug 2024 – Dec 2024

**Technology Stack:** Gem5, HeteroGarnet, Python, SystemC

Team Project (Size: 2)

- Designed and implemented novel Network-on-Chip (NoC) configurations from scratch using HeteroGarnet
- Benchmarked system performance in Gem5 under diverse traffic patterns, informing scalable architecture decisions

### Stick Hero Game

Oct 2023 – Nov 2023

**Technology Stack:** Java, JavaFX, FXML, Multithreading, JUnit, OOP, Design Patterns

Team Project (Size: 2)

- Developed a JavaFX stick-man arcade game with cherry collection mechanics at 60 FPS and less than 5ms input latency
- Ensured code quality with JUnit testing covering 90% of code paths and multithreading for 100 concurrent animations

### Mini Operating System

Oct 2023 – Dec 2023

**Technology Stack:** C, Linux, Git, Java, WSL

Individual Project

- Engineered a priority-based CPU scheduler in C, decreasing average process turnaround time by 15% under heavy multi-process workloads, enhancing system responsiveness
- Streamlined shell and ELF loader with 100% lazy-loading success, reducing memory footprint by 30%

## Positions of Responsibility

- Class Representative, Class 12: Acted as the primary liaison for 80+ students, conveying feedback to faculty while organizing class-wide academic initiatives

## Awards and Achievements

- Won college foosball tournament, demonstrating competitive spirit and strategic thinking in high-pressure situations
- Solved over 300 algorithm and data structure challenges on LeetCode and GeeksforGeeks, demonstrating strong problem-solving skills and algorithmic thinking through consistent practice and optimization

## Certifications

- Machine Learning Specialization (Coursera): Regression, Neural Networks, Clustering
- Data Structures and Algorithms (Udemy): Trees, Graphs, Hashmaps, Algorithms

## Interests and Hobbies

- Playing badminton and foosball

Declaration: The above information is correct to the best of my knowledge.

Anish

Date: September 2, 2025