

# Tejas Ajay Parse

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## EDUCATION

### Arizona State University, Tempe, AZ

Master of Science in Computer Science

May 2026

GPA: 4.0/4.0

**Coursework:** *Multimedia and Web Databases, Knowledge Representation and Reasoning, Natural Language Processing*

### Indian Institute of Information Technology, Sri City, India

Bachelor of Technology in Computer Science

May 2024

CGPA : 9.30/10

**Coursework:** *Data Structures & Algorithms, Machine Learning, Reinforcement Learning, Object Oriented Programming*

## SKILLS & ACHIEVEMENTS

- **Programming Languages:** Python, JavaScript, TypeScript, SQL, Java, C++, C, HTML, CSS
- **Frameworks and Libraries:** PyTorch, Tensorflow, Pandas, Scikit-learn, Express.js, FastAPI, Bootstrap, Tailwind, React.js
- **Tools and Platforms:** Git, GitHub, MongoDB, Azure, AWS, PostgreSQL, MySQL
- **Achieved 1st place in Smart India Hackathon 2023** organized by **Government of India**, standing out among **200+ teams**.
- **Ranked globally at 3425 in Google Hashcode 2022** with **1,071,918 points (India Rank: 1456)**.
- Solved over **500 problems** on competitive programming platforms like **Leetcode**, **Codeforces** and **Codechef**.

## EXPERIENCE

### Software Developer - Psych for Life (ASU On-Campus)

December 2024 – Present

- Working as a part-time software developer at Psych for Life under the Department of Psychology, focusing on **MERN stack**.
- Developing reusable components that form the foundational building blocks for creating interactive learning lessons.
- Identified and resolved critical, hard-to-detect bugs that caused website crashes, while also reviewing pull requests.

### Full Stack Dev Intern - DatStek

January 2024 – June 2024

- Created a Sports CMS utilizing **ReactJs**, and **NodeJs**, **optimizing** MongoDB aggregation pipelines by **14%**.
- Delivered mobile and web applications for managing electoral campaigns using **FastAPI**, **PostgreSQL**, and **React**.
- Architected and implemented a legal document management suite using the **PERN** stack and **Google Docs API**, enabling admins to build **dynamic templates** for users to generate legal documents.

### Full Stack Dev Intern - Settyl Tech Pvt Ltd

May 2023 – September 2023

- Collaborated on the company's **ReactJs micro frontend** architecture, developing inventory management modules.
- Responsible for engineering **20+ RESTful endpoints** within the **Node.js** backend microservice architecture.
- **Migrated** Kafka Events to Azure Event Hubs, **reducing latency by 19%** in inter-database synchronization.

### Software Development Intern - Appscms Technologies

July 2022 – November 2022

- Crafted over **50+ GIF processing tools** to the platform's front end with **HTML**, **CSS**, and **Vanilla JavaScript**.
- **Elevated platform performance** to achieve **700,000 monthly sessions** through feature development and testing.

## PUBLICATION

- **Tejas Ajay Parse**, Tanishq Awasthi, Dushyant Yadav, Dr Piyush Joshi, "[QAAD: Quality Aware Adaptive Denoising](#)", IEEE 11th International Conference on Signal Processing and Integrated Networks (SPIN), March 21 – March 23, 2024, India

## PROJECTS

### PetSanctum – [Github Website Demo](#)

- A web app for finding adoptable animals, uploading pets, and requesting rescue for stray animals.
- Developed REST APIs using **Express.JS** with **MongoDB** as a persistence layer while utilizing **React** on the front end that follows the **MVC Model** and uses **Redis** for Caching which also is **CICD** pipelined.

### Enhanced Video Classification and Retrieval System Using HMDB51 Feature Engineering - [Github](#)

- Built a video search and classification system using HMDB51, primarily with **Python** and **PyTorch**, creating various features from videos and integrating feature extraction, dimensionality reduction, and retrieval mechanisms.
- Implemented classifiers (K-NN, SVM) and a relevance feedback system to improve classification and user-driven search.
- Optimized retrieval with Locality-Sensitive Hashing (LSH) and clustering for efficient similarity search and label analysis.

### UNO Multiplayer - A Socket Symphony - [Frontend Backend Try It](#)

- Developed a real-time UNO multiplayer game using **React.js** and **Node.js**, integrating a chat room and a robust **socket** connection system for seamless gameplay.
- Enhanced user experience with a visually appealing user interface using **Tailwind CSS** and **Framer Motion**.