Tejas Ajay Parse

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EDUCATION

Arizona State University, Tempe, AZ   **Aug 2024 - Present**
Master of Science in Computer Science
Coursework: *Multimedia and Web Databases, Knowledge Representation and Reasoning, Natural Language Processing*

Indian Institute of Information Technology, Sri City, India   **Dec 2020 - May 2024**
Bachelor of Technology in Computer Science   CGPA : 9.30/10
Coursework: *Data Structures & Algorithms, Database Management, Full Stack Development, Object Oriented Programming*

SKILLS & ACHIEVEMENTS

- **Programming Languages:** Python, JavaScript, TypeScript, SQL, Java, C++, C, HTMl, CSS
- **Frameworks and Libraries:** Express.js, FastAPI, Bootstrap, Tailwind, React.js, PyTorch, TensorFlow, Pandas, scikit-learn
- **Tools and Platforms:** Git, GitHub, MongoDB, Azure, AWS, PostgreSQL, MySQL
- **Winner** of **Smart India Hackathon 2023** organized by the **Ministry of Education** held across India.
- Completed **Google Hashcode 2022** with a score of **1071918** pts and a global rank of **3425 (Indian Rank 1456)**.
- Solved over **500 problems** on competitive programming platforms like **Leetcode, Codeforces** and **Codechef**.

EXPERIENCE

Full Stack Developer Intern - DatStek   **Jan 2024 – June 2024**
- Developed a Sports CMS using **ReactJs, and NodeJs**, optimizing queries using MongoDB aggregation pipelines.
- Developed mobile and web apps for managing electoral campaigns using **FastAPI, PostgreSQL, and React**.
- Created a Legal Document Web App with a comprehensive PDF management suite for document creation and signing, utilizing the **PERN** stack and **Google Docs API**.

Full Stack Developer Intern - Settyl Tech Pvt Ltd   **May 2023 – Sept 2023**
- Worked on the company's **ReactJs micro frontend** architecture, developing inventory management module.
- Developed **20+ RESTful endpoints** within the backend microservice architecture using **Node.js.**
- Implemented several **MongoDB triggers** using **Azure Functions** to automate inter-database synchronization.

Software Development Intern - Appscms Technologies   **Jul 2022 – Nov 2022**
- Developed over **50+ GIF processing tools** for the company's front end using **HTML, CSS, and Vanilla JavaScript**.
- Worked with a team to develop and test new features, helping achieve **700,000 sessions per month**.

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 21-23, 2024, India

PROJECTS

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**.

Farmer Producer Organization (FPO) Portal – *Frontend Backend Try It*
- Contributed to the **Winning** team at **Smart India Hackathon 2023**, actively involved in developing an analytical portal for comparison of FPOs, coupled with a marketplace for income diversification.
- Implemented a **Smart Voice-based Multilingual NLP Chatbot** using **ReactJs** (Frontend) and **Nodejs** (Backend), alongside **Dialogflow** for Text Chatbot, and **MongoDB** for efficient data management.

PetSanctum – *Github Website Demo*
- A web app for finding adoptable animals, uploading pets, and requesting rescue for stray animals.
- Developed RESTful 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.

Devanagari Handwritten Digits Recognition - *Github Website*
- Trained GPU-accelerated CNN **PyTorch** models, achieving **99.67%** testing accuracy with **Transfer Learning** on a Multilingual OCR dataset.
- Deployed the models using **ReactJs** for the frontend and **FastAPI** for the backend.