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*

EXPERIENCE

Full Stack Dev Intern - DatStek   **Jan 2024 – June 2024**
- Developed a Sports Content Management System using **ReactJs, MongoDB, and NodeJs**, optimizing search queries with complex 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 Dev 1 Intern - Settyl Tech Pvt Ltd   **May 2023 – Sept 2023**
- Worked on the company's **ReactJs micro frontend** architecture, developing several modules, including the inventory management module for their supply chain suite.
- Developed **20+ RESTful endpoints** within the backend microservice architecture using **Node.js**, and created multiple **MongoDB triggers** and **Azure Functions** while collaborating closely with the CEO.

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**.
- Collaborated with a team of developers to develop and test new features for the company's flagship product, contributing to reaching a milestone of **700,000 sessions per month**.

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 application where one can find animals to adopt and simultaneously upload their pets and apply for the rescue of stray animals through the application.
- Developed 100% RESTful API using **Express.JS** with **MongoDB** as a persistence layer while utilizing **React** on the front end. It follows the **MVC Model** and uses **Redis** for Caching which also is CICD pipelined.

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

SKILLS & ACHIEVEMENTS

- **Programming Languages:** JavaScript, TypeScript, MySQL, Python, Java, C++, C
- **Frameworks and Libraries:** Express.js, FastAPI, Bootstrap, Tailwind, React.js, PyTorch, TensorFlow, Pandas, scikit-learn
- **Tools and Platforms:** Git, GitHub, MongoDB, Azure, AWS
- **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)**.