

Tejas Ajay Parse

(623) 276-9100 · tparse21@gmail.com · [Portfolio](#) · [LinkedIn](#) · [GitHub](#) · Tempe, AZ

EDUCATION

Arizona State University, AZ, USA

Master of Science in Computer Science

May 2026

GPA: 4.0/4.0

Awarded the New American University Merit Scholarship of \$9000 for outstanding academic performance.

Coursework: Cloud Computing (A+), Natural Language Processing (A), Software Testing (A), Multimedia and Web Databases (A)

Indian Institute of Information Technology, Sri City, India

Bachelor of Technology in Computer Science

May 2024

GPA : 9.30/10

Coursework: Distributed Computing (A), Database Systems (A), Data Structure & Algorithms (A), Object Oriented Programming (A)

SKILLS

- **Programming & Scripting Languages:** Python, JavaScript, TypeScript, Java, SQL, HTML, CSS, C++, C, Kotlin, MATLAB
- **Frontend:** React, Tailwind CSS, Bootstrap, HTML/CSS, Android, Vue.js, Next, Framer Motion
- **Backend:** Node.js, Express.js, FastAPI, Google Docs API, REST APIs, Flask, GraphQL, Redis, Socket.io
- **Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow, Spacy, Jupyter, LangChain, Apache Kafka, Apache Spark
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, Athena, Glue), Azure (Storage, Event Hubs, App Service, Functions), CI/CD, Git, Github, Linux

PROFESSIONAL EXPERIENCE

Software Developer Intern

WalnutEd, AZ, USA

Jun 2025 – Present

- Automated **multi-repo CI/CD** with **AWS Copilot** and **GitHub Actions**, eliminating manual effort and accelerating ML service delivery.
- Refactored monolithic **Next.js** codebase into separate frontend and **FastAPI** backend, improving scalability and development velocity.
- Built backend services with **FastAPI** and **Supabase** to power a college application chatbot platform with robust CRUD capabilities.

Software Developer

Psych for Life, AZ, USA

Dec 2024 – Present

- Built reusable **React & TypeScript** proprietary UI components (Text, Video, Links, MCQ, Rating), cutting content creation time by over **50%**.
- Reviewed **40+ GitHub PRs** and resolved **12+** critical production bugs, including **high-severity crashes**, improving app stability and reliability.
- Led backend performance improvements by replacing **Javascript** logic with **MongoDB aggregations**, reducing query latency by **31%**.
- Deployed and maintained application services on **AWS (EC2, S3, Cognito)** and containerized codebase using **Docker** for better scalability.

Full Stack Dev Intern

DatStek, India

Jan 2024 – Jun 2024

- Developed a **complex backend** using **FastAPI** and **PostgreSQL** to support both **React** based web and **React Native** based mobile platforms.
- Built **responsive web interfaces** in **React.js** and cross-platform mobile applications in **React Native** for managing electoral campaigns.
- Engineered a legal document management suite using **PostgreSQL, React, Node.js**, and the **Google Docs API**.

Full Stack Dev Intern

Settly Tech Pvt Ltd, India

May 2023 – Sep 2023

- **Migrated Kafka Events** to **Azure Event Hubs**, reducing latency by **19%** in inter-database synchronization.
- Maintained complex **multi-database Node.js backend** services while delivering features in an **Agile** team using **Jira** for sprint planning.
- Collaborated with a team of **10 developers**, owned **3 micro frontend repos**, mentored an intern, and led knowledge transfer sessions.

Software Development Intern

Appscms Technologies, India

Jul 2022 – Nov 2022

- Crafted **50+ GIF processing tools** like background removal, blur effects, and sprite sheet generation using **JavaScript** and **HTML Canvas**.
- Elevated platform performance to achieve **700,000 monthly sessions** through feature development and testing.

RESEARCH

- **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

Scalable Edge-Cloud ML Pipeline - [Github](#)

- Simulated IoT devices using **EC2** instances and configured **AWS IoT Greengrass Core** and **Client** to edge-based **ML processing pipeline**.
- Implemented **decoupled** face detection on edge and face recognition using **MTCNN** and **FaceNet**, integrating with **SQS** and **AWS Lambda**.

LLM Logical Reasoning Evaluation with Auto-Evaluator Agent - [Report](#)

- Evaluated and compared logical reasoning performance of **LLaMA** and **ChatGPT** using benchmark datasets like **LogiQA** and **ARCT**.
- Developed an error taxonomy to categorize reasoning failures, providing insights for improving reasoning chains in LLMs.
- Created an auto-evaluator LLM agent, achieving **81.98% accuracy** in categorizing reasoning errors based on the defined taxonomy.

Smart City Real-Time ELT Pipeline - [Github](#)

- Designed an **ELT-based** real-time data pipeline using **Apache Kafka**, **Zookeeper**, and **Python** to simulate and stream multi-source IoT data.
- Processed Kafka streams with **Apache Spark Structured Streaming**, storing data in **Amazon S3** using **Parquet** and **checkpointing**.
- Automated schema detection via **AWS Glue** for querying with **Athena** and **Redshift Spectrum**, deployed using **Docker Compose**.

ACHIEVEMENTS

- Winner, National Smart India Hackathon 2023 (Among 200+ teams) | Global Rank 3425, Google Hashcode 2022 (1,071,918 points)