Tejesh Paidi

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EDUCATION

Master of Science – Software Engineering 08/2023 - 05/2025
Arizona State University, Tempe, AZ 4.0/4.0 GPA

TECHNICAL SKILLS

Programming Languages: Python, TypeScript/ JavaScript, SQL, C, C#, HTML/ CSS
Web Technologies: React.js, Flask, Node.js, Express.js, .NET Core
Database Technologies: PostgreSQL, SQLAlchemy, Entity Framework
Tools & Technologies: Metabase, Docker, Kubernetes, AWS EC2, S3, SQS, Redshift, EMR, Git, PySpark, Pandas

PROFESSIONAL EXPERIENCE

Affinity Solutions, Inc. (Remote): Data & Software Engineer 06/2024 – Present
- Spearheaded the aggregation and delivery of U.S. and U.K. customer transaction data to over 10 major clients—including Bain, McKinsey, and Experian—fulfilling revenue deals exceeding $10 million
- Automated the generation of weekly data release notes, a task previously done manually for over a year, saving over 5 hours of weekly staff time
- Enriched over 2 billion rows of transaction data received from banks to enhance data usability for clients
- Tools & Technologies: **Python, AWS Redshift, EC2, S3, EMR, PySpark**

ASU Decision Theater Network (Tempe, AZ): Software Developer, Part Time 01/2024 – 01/2025
- Building CuRVE- an interactive, visualization-based tool that enables stakeholders to explore huge datasets and analysis regarding the impacts of Colorado river water shortage in Arizona. CuRVE has over 2000 monthly active users
- Scaffolded codebases for full-stack applications, enabling the team to seamlessly collaborate and accelerate the development of visualization tools used by stakeholders such as the City of Phoenix, etc.
- Tools & Technologies: **Python, Flask, JavaScript, React.js, PostgreSQL, Docker, Kubernetes, Highcharts**

Omnibiz Africa (Bangalore, India/ Lagos, Nigeria): Software Development Engineer 05/2021 - 07/2023
- Lead developer in a system rewrite to a microservices architecture. Eliminated the use of stored procedures in MS SQL decreasing API response time by 40%
- Developed widgets in our customer facing PWA application to customize the product listing page experience of retailers. Widgets yielded a 60% conversion rate into orders, generating monthly revenue of over $100K USD
- Created Metabase reports which tracked 100+ important KPIs, enabling product managers to make data driven decisions
- Mentored, reviewed PRs, and managed three new interns, guiding them to produce production-ready code quickly. Managed and owned features end to end within the team
- Tools & Technologies: **JavaScript, React, Python, Azure Message Bus, MS SQL, .NET, C#, Entity Framework, Node.js**

RELEVANT PROJECTS

Cloud-based AI/ML Applications for Scalable Image and Video Processing- Git Repository Link Fall 2024
- Developed a scalable image processing system leveraging AI/ML models and **custom autoscaling logic for EC2 instances**, used **AWS SQS** for message queuing and **AWS S3** for data storage. Integrated a HTTP Web Server interface for efficient user interaction and seamless processing of images. Processed 1000 images in 100 seconds.
- Implemented a serverless AWS pipeline with two **Lambda functions**: one for splitting videos into frames and another for performing face recognition on them. Processed 100 videos in 180 seconds.

Semantic Web Disease Predictor- Git Repository Link Fall 2023
- Integrated and normalized diverse datasets using **Python** into an **OWL-compliant semantic web database** using **Apache Jena Fuseki** and deployed the database on an **AWS EC2 instance**
- Developed and optimized a front-end application powered by **React**, implementing **SPARQL queries** and lifestyle filters, which allowed users to visualize disease patterns for a given lifestyle

EXTRACURRICULAR ACTIVITIES

- Head of Finance & Tech (2020-2021) for the PES Model United Nations Society. Headed the design & development of our MUN website which received over **1.4K unique visitors** and generated **revenue of 140K Rupees**