Saivenkat Ajay D.

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Education

University of Florida   May 2025
Master of Science in Computer Science
Relevant Courses: Data Structures and Algorithms, Software Engineering, Distributed Systems

Manipal University Jaipur   May 2023
Bachelor of Science in Information Technology
Relevant Courses: Operating Systems, Object Oriented Design

Languages and skills

Languages: Python, Go, Java, Javascript, C++
Technologies and Frameworks: Git, React, Linux, Docker, PostgreSQL, AWS, Flask, OAuth
Skills: Backend Development, Data Engineering, CI/CD, Agile Development, Unit and Integration Testing

Experience

Terra Economics and Analytics
Data Engineering Intern (Transformations)   (June 2022 - August 2022)
Tech-Stack: Python, Pandas, Postgres, AWS

- Spearheaded the execution of the **ETL** process for transforming **7** large-scale property deeds databases, ensuring seamless data extraction, transformation, and loading into the company's systems
- Maintained more than **95% parsing accuracy** across transformed datasets, by implementing regex techniques during the data transformation phase of the ETL process
- Revamped the company's proprietary data transformation framework, **enhancing parsing accuracy from 5% to 95%** in previously underperforming areas through meticulous debugging and analysis

Projects

goManageDocker - A TUI to manage docker objects *(github.com/ajayd-san/gomanagedocker)*

- Built a feature-rich TUI tool in **Go** for efficiently performing tasks like listing, deleting, execing, pruning, and running docker objects
- Reduced average object management time by approximately **15 seconds** by implementing VIM motions for navigation and sensible key bindings for various actions
- Successful and Actively maintained open-source project with **475 Github stars** and over **2000 downloads**
- Integrated CI/CD pipeline using GitHub Actions to **automate** testing and deployment process

Metered API server *(github.com/ajayd-san/metered-api-server)*

- Engineered a performant async API server using Rust with inbuild mechanisms to generate and track API keys
- Deployed to an **AWS EC2** instance using docker containers to ensure easier development and deployment
- Used Inter-Thread communication channels to eliminate race conditions during quota updation on Postgres database

EasyTorch - Pytorch framework *(github.com/ajayd-san/easyTorch)*

- Devised and built an easy-to-use Pytorch framework for image classification tasks by employing the **OOP** paradigm
- Adopted widely used techniques like **unit testing** and **static typing** to facilitate easier development

Open Source Contributions

Flask

- Investigated and minimized faulty static typing error frequency by **20%** by rectifying typing definitions of methods
- Diversified supported variable types in Flask's JSON encoder by suggesting ways to add Decimal object support

Redis

- Identified and resolved system hang issues in Genetic Object Mapping caused by missing redisJson installation.