Sigireddy Visswesh

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Education

Aditya College of Engineering   **Nov 2021 - May 2025**
BTech in Computer science -IoT | course work   *GPA: 8.2/10*

Udacity
Nanodegree-AI programming with python | Certificate   *Oct 2023-Jan 2024*

Experience

Deed bee social ventures pvt Limited   **Feb 2025**
Product Engineer   *MERN Stack,PostgreSQL,typescript,trpc,Nitro Nuxt, AWS*

- Developed a promotion engine and compliance tools integrated with SAP systems, ensuring consistency across enterprise-level data and improving audit reliability.
- Built and optimized real-time systems for order and billing processes, implementing connection pooling and concurrency handling using `pg.Pool` and queuing mechanisms.
- Enhanced compliance tools with frontend performance optimizations such as debouncing, lazy loading, and structured error handling to improve user experience and data accuracy.
- Collaborated cross-functionally with product, QA, and DevOps teams to deliver full-stack features and maintain robust backend APIs and frontend dashboards.

Projects

CoLab Pro   *Mern Stack, Docker Compose, Prometheus,Sockets, CI/CD, Github Actions, Grafana*

- Contributed to developing a collaborative platform for project sharing in a team of 6.
- Implemented key features like 1 on 1 chat,authentication and centralized project hub.
- Integrated DevOps practices for streamlined workflows and SEO Score of 100 in lighthouse.

Event Management System   *MongoDB, NodeJS, ExpressJs, Postman, EJS, Tailwind CSS, Javascript, Jest*

- Developed a real-time Event Management with two different users.
- Event creation,deletion,scheduling and analytics,authentication for two people both admins and users .
- Robust Backend and unit test cases using Jest and a modular event management application reviewed by one expert.

ML Workflow for Scones Unlimited (AWS)   *Pandas, NumPy, Scikit-learn, PyTorch, Matplotlib, AWS*

- Enhanced a pre-trained DenseNet-169 model for image classification tasks on AWS pipeline infrastructure.
- Deployed the image classifier as a CLI tool and integrated it with AWS S3 and SageMaker pipelines.
- Achieved 90% test accuracy with 91% training accuracy using PyTorch, validating performance through evaluation metrics.

Achievements

- **Participated in the prestigious Amazon ML School in 2023**
- **Selected as one of the few Amazon AI-ML Scholars in 2023.**

Skills

Technical skills:

- **Languages** : Java,C,Javascript,R,Python,SQL
- **ML Tech Stack** : Numpy,Pandas,Scikit-learn,Pytorch,Matplotlib
- **Web Tech Stack** : React.js,Node.js,Typescript,Express.js,Mongodb,Jest,Next.js,Zustand,Radix-Ui,.
- **Tech Proficiency:** : Networking,Linux,Azure,Docker,Google workspace,Kubernetes,Jenkins,Git

Certifications:

- Google Associate Cloud Engineer.
- Microsoft Azure Administrator.
- IT specialist Python.