

Nirmal Puttamoni

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SKILLS

- **Programming Languages** : Java, HTML, CSS, Python, Javascript, Bash/Shell Scripting
- **Libraries and Frameworks** : React, Node.js, Redux, Fast API, Express.js
- **Tools** : MySQL, PostgreSQL, MongoDB, SQL, Linux/Unix, REST API, Git, Azure, Matplotlib, Pandas, Prompt Engineering

EXPERIENCE

FullStack Engineer

Apr 2024 - Present

Fractal Analytics

- Engineered and deployed a Marketing Mix Modeling (MMM) application, enabling data-driven decision-making for marketing ROI optimization.
- Implemented an AI-powered MMM chatbot using Azure OpenAI and LangChain, dynamically generating SQL queries via `create_sql_agent` and delivering intuitive insights through text, tables, and charts.
- Designed a standardized schema across database tables and backend logic, making the application generic, scalable, and easily adaptable for new datasets and clients.
- Enhanced data visualization by building interactive dashboards with dynamic chart scaling, color-coded sliders, and adaptive filters, boosting user engagement and analytical clarity.
- Optimized performance with asynchronous operations in FastAPI, achieving a 30% improvement in response times and a smoother user experience.
- Hardened application security by implementing JWT authentication, password hashing, and role-based access control (RBAC), significantly reducing exposure to security threats.
- Improved code quality and maintainability by integrating Pytest-based automated testing, enforcing coding best practices, and optimizing both frontend (ReactJS/Redux/Antd) and backend (Python/FastAPI/PostgreSQL).
- Collaborated cross-functionally with data scientists, analysts, and design teams to align MMM outputs with business requirements and drive adoption.

Tech Stack: ReactJS, Redux, FastAPI, Antd, ChartJS, Python, JavaScript, PostgreSQL, SQLAlchemy, Azure Devops, Pytest, Azure OpenAI, Matplotlib, Pandas, LLM, LangChain.

Project Associate

Dec 2021 - Nov 2023

Zeta Global

- Designed and maintained complex Talend jobs for ETL processes, managing diverse data formats to ensure seamless data extraction and transformation.
- Automated tasks and streamlined data processing workflows by developing optimized shell scripts, improving operational efficiency by 15%.
- Reduced processing time by 10% through the optimization of Talend jobs, significantly enhancing system performance and data throughput.

PROJECTS

Shopping Cart

🔗 <https://shoppingcart-e0gy.onrender.com/>

- Engineered a full-stack e-commerce web application, enhancing user experience for users with seamless product browsing and purchasing.
- Orchestrated MongoDB integration to manage 10,000+ records, improving data retrieval speed by 30% for products and transactions.
- Implemented secure user authentication with JWT, streamlining registration and login processes, resulting in a 20% increase in user retention.
- Integrated PayPal API for secure transactions, achieving a 15% reduction in cart abandonment rates during checkout.

Tech Stack used : React, ExpressJS, HTML, CSS, TypeScript, Node.js, MonogoDB, Bootstrap, RESTful APIs, Postman

BookMyShow

🔗 <https://bookmyshow-5o4y.onrender.com/>

- Developed a scalable BookMyShow web application using ReactJS, Node.js, and MongoDB, currently supporting 10 live users with optimized performance.
- Implemented secure JWT authentication, password reset functionality, Stripe payment processing, and email notifications via SendGrid.
- Enhanced user experience with a shimmer effect during loading times and efficient state management using Redux.

Tech Stack used : React, ExpressJS, HTML, CSS, JavaScript, Node.js, MonogoDB, AntD, RESTful APIs

ACHIEVEMENTS

- Maintained academic excellence throughout my academic journey, excelling in coursework and examinations.
- Recognized at Zeta Global and Fractal for dedication, professionalism, and high-quality work.

EDUCATION

Woolf Scaler	2024
MS	
Vardhaman College Of Engineering	2021
BE/B.Tech/BS	