

Pravalli Budida

Portfolio Website: <https://pravs-mystic.github.io>

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RELEVANT EXPERIENCE

Seattle University

Seattle, WA

Research Assistant

Jun 2024 - Sep 2024

- Revamped the Database Management Systems (DBMS) curriculum, to elevate student engagement and mastery of concepts
- Identified correlations and investigated the impact of industrial chemicals on lung diseases by analyzing health-related datasets

Keypoint Technologies

Hyderabad, India

Software Engineer

May 2022 - April 2023

- Designed and implemented a PostgreSQL database from inception for an education technology platform with 5000+ users and integrated Node.js APIs with web and mobile applications
- Expertise in leveraging PostgreSQL triggers to automate updates across tables and generate extensive performance analytics
- Implemented several features in a multilingual chatbot using custom NLP/NLU models to automate responses to common issues, improving client-agent communication and customer experience
- Developed complex web applications using React, Angular and integrated them with REST APIs
- Skilled in leveraging AWS, Jenkins, Git, and Docker to set up CI/CD pipelines and seamlessly deploy microservices
- Day-to-day responsibilities included code reviews, debugging, deployments and mentoring interns

Polaris Consulting Services Ltd

Hyderabad, India

Associate Software Engineer

Aug 2015 - Jan 2017

- Enhanced invoice generation accuracy for Citibank Trust by optimizing Oracle PL/SQL procedures and functions
- Conducted extensive unit tests to validate bug fixes and new features

ADDITIONAL EXPERIENCE

Headstarter AI

Remote

Software Engineering Fellow

July 2024 - Sep 2024

- Built and deployed 5 AI projects in 5 weeks using concepts like LLMs, RAG, Vector DB (Pinecone, PGVector), and Langchain following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment
- Founded [BlueStraw](#), an AI chat app where users can interact with their documents using custom tools and integrations and get personalized responses; leveraged Google Analytics for tracking user interactions and engagement with the app

RELEVANT PROJECT EXPERIENCE

- [Collaborative Filtering Recommendation Engine](#)- Implemented using Apache Spark to provide personalized movie recommendations based on ratings of similar users - Collaborative filtering implementation. (Spark, AWS, Docker)
- [End-to-end Data Engineering Pipeline](#)- Implemented using AWS Glue, Athena, and Quicksight for real-time BI.
- [Airport-Airlines Choice Model Machine Learning Project](#) - Generated a forecasting model to predict passenger choices for airports and airlines based on user travel data and various regression methods (Python, R, ML models)
- [Optimizing impressions for Ads Project](#) - Recommended an optimal audience targeting strategy that maximizes viewable impressions for advertisers using ensemble machine learning techniques. (Python, Tableau, ML modeling)
- [Interactive Stocks Dashboard](#) - Developed using the R Shiny framework, elevating data visualization and business insights

EDUCATION

Seattle University

Seattle, WA

Master of Science in Business Analytics (GPA: 3.9)

Sep 2023-Present

Relevant Courses: Statistical Modeling, Data Wrangling and Visualization, Machine Learning, Big Data

Awards: Dean's Honor List of Academic Excellence

SKILLS

Languages/ Frameworks: R, Python, Java, JavaScript, Typescript, HTML, CSS, Node.js, React, Next.js, Angular, Apache Spark

Databases: SQL, PL/SQL, Postgres, NoSQL, MongoDB, Firebase

Tools/Concepts: AWS, Quicksight, ETL, Tableau, Excel, Jupyter, Git, Docker, Jenkins, Jira, Vercel, Stripe, Clerk, Linux, Agile, Microservices, Machine Learning Models, Statistical Analysis, t-test, Chi-squared, Data pipelines, Communication Skills, UAT, SDLC

Generative AI Stack: LLMs, RAG, Vector DB, Pinecone, pgvector, Langchain, LLM Tools