Sai Praveen Kudapa

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EDUCATION

Master of Science in Computer Science

December 2023

Stevens Institute of Technology, Hoboken, New Jersey, USA

Bachelor of Technology in Computer Science and Engineering

Amrita Vishwa Vidyapeetham, Bangalore, Karnataka, India

May 2020

TECHNICAL SKILLS

- Languages: Core Java | Python | C | C# | SQL | HTML | CSS | JavaScript | YAML | AngularJS | Bootstrap | ReactJS
- Tools: GitHub | Jenkins | Visual Studio | VS code | SAP Crystal Reports | Docker | MongoDB | MySQL
- Platforms & Technologies: Ubuntu | Google Cloud Platform | AWS | ASP.Net | Tableau | PowerBI
- Operating System: Windows | Linux | MacOS | Android
- Certifications: Google Certified Data Analytics from Coursera | Data Structures and Algorithms from LinkedIn

PROFESSIONAL EXPERIENCE

Software Developer | SS IT SOLUTIONS, Hyderabad, Telangana, India

July 2020 - July 2022

- Developed a customized ERP model, implementing Scrum and Agile techniques to create a development process.
- Ensured a consistent and visually appealing user experience by utilizing Bootstrap, CSS, and ReactJS.
- Integrated **RESTful APIs** for system integration, significantly improving inter-service communication and data exchange.
- Analyzed NuGet package dependencies and integrated them into the ASP.NET Core application for Microservices, optimizing ERP functionalities.
- Participated in collaborative efforts, conducted regular code reviews, and managed the source repository using Git.
- Established APIs using **ASP.NET Web API**, enabling efficient queries and integration with the ERP system.
- Designed and implemented an Inventory Management module focusing on stock tracking, orders, and warehouse management.
- Created secure EDI and APIs with WCF, maintaining data protection measures to ensure smooth, authorized data exchange.
- Developed a Sales module, incorporating features for lead tracking, customer communication, and sales reporting.
- Contributed to designing and developing a distributed computing environment to optimize the ERP system's scalability and performance.
- Designed user interfaces with a focus on functionality and security, leveraging knowledge in ASP.NET MVC and C#.
- Conducted unit testing using MSTest and the Moq framework to ensure the reliability and stability of ERP modules.
- Implemented database structures for storing customer information, sales orders, and transaction history.
- Enhanced **MS SQL Server** with triggers, joins, and procedures, improving data manipulation, resulting in a 50% increase in processing speed and a 30% improvement in data correctness.
- Maintained records using Crystal Reports and created customized reports for various purposes.
- Contributed to the Reporting module, utilizing SQL Server Reporting Services (SSRS) for report generation.
- Used the Entity Framework for seamless mapping of entity objects to relational databases, enhancing data consistency.

PROJECTS

Disease Detection Through Advanced Audio Analysis | Stevens Institute of Technology

July 2023 – October 2023

- Preprocessed respiratory sound data and extracted Mel-Frequency Cepstral Coefficients using advanced audio analysis libraries.
- Developed a deep learning classification model, achieving an 89% accuracy rate in distinguishing between types of respiratory sounds.
- Evaluated the model's performance, including loss and accuracy visualization and confusion matrix analysis.
- Utilized NumPy, Pandas, PyTorch, TensorFlow, Keras, and Scikit-learn for data handling, model building, and evaluation.

E-Wallet Project | Stevens Institute of Technology

January 2023 - July 2023

- Led the development of a secure e-wallet application, employing Jenkins for continuous integration and AWS with Kubernetes
 for scalable cloud hosting.
- Containerized the application using **Docker** for isolated and consistent deployment environments.
- Focused on Java backend services for financial transactions, ensuring robustness and high availability.
- Introduced an iOS module with a seamless and intuitive user interface for mobile devices.
- Managed source code using Git and utilized Amazon ECR for secure Docker container image storage.

Housing Price Prediction | Stevens Institute of Technology

January 2022 – July 2022

- Developed a predictive model for housing prices with a 92% accuracy rate.
- Used Pandas for data manipulation and Scikit-learn for gradient-boosting regression model implementation.
- Performed data analysis and feature engineering using **Python**, reducing the Mean Squared Error by 20%.