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   May 2020
Amrita Vishwa Vidyapeetham, Bangalore, Karnataka, India

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:** AWS Certified Developer – Associate | Google Certified Data Analytics from Coursera

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.
- Managed source code using **Git** and utilized **Amazon ECR** for secure Docker container image storage.