Shanmukh Krishna Boddu

Software Engineer

CONTACT

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https://github.com/Shanmukh459/

EDUCATION

San Jose State University - GPA: 3.6/4.0
M.S., SOFTWARE ENGINEERING
Expected Graduation - Dec 2023

SKILLS

Languages: Python, Java, C#, C, C++, SQL
Frameworks: Django, React, SpringBoot, ASP.NET, Flask, NodeJS
Web Technologies: JavaScript, HTML, CSS, TypeScript
Libraries: Scikit-learn, Numpy, Pandas, TensorFlow, MATLAB
Tools: Figma, Tableau, Git, MS Office, VS Code, IntelliJ, Powershell, Postman, Artifactory, Jira, confluence, BitBucket, Jenkins, Docker
Databases: MSSQL, PostgreSQL, MySQL, MongoDB, Oracle, Hadoop, SQLite
Cloud: AWS, Linux, Azure, GCP, Heroku

EXTRACURRICULARS

Instructional Student Assistant - San Jose State University (Aug 2022 - May 2023.
Head of Dance crew - Livewire (Aug 2019 - Sep 2020).

PROFILE

Results-driven software engineer with over 2 years of experience designing and developing innovative software solutions currently pursuing master's in Software Engineering. Adept at collaborating with cross-functional teams to deliver high-quality, scalable, and performance-driven applications. Strong expertise in both front-end and back-end development, with a proven track record of delivering projects on time and within budget. Committed to staying up-to-date with industry trends and enhancing technical skills to solve complex problems.

EXPERIENCE

SOFTWARE ENGINEER
NCR Corporation — Oct 2020 - Dec 2021

- Achieved 75% reduction in deployment time by implementing CI/CD workflows using GitHub Actions, resulting in improved development efficiency.
- Developed a self-service web application to reduce manual effort by 80% using Django and React in collaboration with 4 other engineers.
- Designed database solutions aligned with business objectives and implemented ETL pipelines, Stored Procedures, triggers, and performance tuning techniques resulting in 35% improvement in system performance and efficiency.
- Achieved a user satisfaction rate of 98% by delivering user support services via Service Now ticketing system for Atlassian tool stack (Jira, Confluence, Jira Align), Artifactory and WhiteSource.
- Worked on front-end development using HTML, CSS and JavaScript and Python for server-side backend business logic implementation.

SOFTWARE ENGINEER INTERN
NCR Corporation — Jan 2020 - Sep 2020

- Collaboratively developed a full stack application using ASP .NET (C#) to implement robust backend server operations and HTML/CSS/JavaScript for interactive and responsive UI.
- Utilized JUnit for unit testing, leading to a notable 5-hour per week reduction in testers' workload.
- Leveraged Jira for bug tracking, successfully identified and resolved 15-20 bugs, ensuring improved software quality, and reducing potential business impact.

DATABASE ENGINEER INTERN
Artha Solutions — Jul 2019 - Aug 2019

- Designed and implemented scalable relational database management systems including Oracle, MySQL, PostgreSQL.
- Reduced response time by 30% and improved system efficiency by employing performance optimization, query tuning and index optimization techniques.
- Created an ETL pipeline using data tools and Python to load user data from a database, displaying it on a Confluence page for document statistics, significantly improving readability.

PUBLICATION

- Published a research paper on Human Age and Gender Estimation using Support Vector Machine (SVM) in ICACECS International Conference.

PROJECTS

PLANT DISEASE CLASSIFICATION USING DEEP LEARNING

- Achieved 97.4% accuracy in classifying diseases in plants by developing a DenseNet (Convolutional Neural Networks) model from scratch.
- Implemented a web-based user interface for the plant disease classification model using Flask and ReactJS.
- Pre-processed a large-scale plant disease image dataset, including image augmentation and normalization, to improve model performance and generalization.

AIRPORT MANAGEMENT SYSTEM

- Collaborated with team members and implemented an airport management system using - Python (Django), SQLite, and HTML/CSS, that enabled personnel to oversee flights and assets, allowing customers to access information and make bookings.
- Developed and deployed a flight price prediction feature using an ensemble method (Random Forest), achieving 96% accuracy.
- Executed role-based authentication using Django's user authentication system, resulting in an 80% reduction in unauthorized access and a 99.9% uptime upon successful deployment on PythonAnywhere cloud platform