HARSHA SIDDAGANGAIAH

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EDUCATION

University of Oregon — **Eugene, USA**
Master of Science in Computer Science (GPA – 3.84) — Sept 2021 - June 2023

Visvesvaraya Technological University, BMS Institute of Technology — **Bangalore, India**
Bachelor of Engineering in Informantion Science Engineering (GPA – 3.51) — Aug 2014 - July 2018

TECHNICAL SKILLS

Programming Languages: Python, JAVA, PHP, C++, C.
Database management (SQL and NoSQL): PostgreSQL, OracleDB, MySQL, SQLite, SQL Server, MongoDB.
Web development: HTML5, CSS3, JavaScript, Bootstrap, AJAX, JSON, XML, SOAP.
Front-end frameworks: React, jQuery.
Server-side technologies: Django, Flask, Node.js, Apache, Tomcat, Microservices, J2EE, JDK, JSP, JSF, Java Servlets.
API development: Flask-RESTful, Django REST framework, Spring.
DevOps: Jenkins, Docker, Kubernetes, CI/CD pipelines.
Cloud computing: AWS, Microsoft Azure Cloud.
IDE's: Spyder, PyCharm, Jupyter, Eclipse.
Version Controlling Tool: Git.
Software Development Methodologies: Agile (Scrum).
Certifications: Oracle Database SQL Certified Associate, Oracle Certified Associate Java SE7 Programmer.

EXPERIENCE

Atos Syntel — **Bangalore, India**
Associate Engineer — Aug 2018 - Aug 2021

- Architected and implemented highly efficient backend solutions for an automobile semiconductor manufacturing client. Engineered custom algorithms to optimize manufacturing processes, resulting in a 18% increase in production efficiency.
- Developed and maintained responsive web applications using HTML5, CSS3, JavaScript, Bootstrap, and React.js to enhance user experience and increase customer satisfaction. Utilized SQL relational databases such as PostgreSQL and OracleDB to store and retrieve data for real-time analysis and monitoring of automobile semiconductor manufacturing processes.
- Implemented microservices using server-side technologies such as Django, Flask, and Node.js to enhance scalability and performance of the applications. Designed and deployed these microservices to enable seamless integration with other systems and ensure efficient data flow and automation.
- Created RESTful APIs using Flask-RESTful and Django REST framework to enable seamless integration with other systems, resulting in improved data flow and automation.
- Productionized CI/CD pipelines using Jenkins, Docker, and Kubernetes to ensure continuous delivery of high-quality software products to customers. Automated build, test, and deployment processes to reduce the turnaround time and increase software release frequency.
- Leveraged cloud computing services such as AWS and Microsoft Azure to build scalable and reliable backend applications. Utilized cloud-native services such as Lambda, S3, and DynamoDB to enhance the functionality and reduce the infrastructure costs of the applications.
- Worked in a cross-functional team using Agile methodologies such as Scrum to develop software applications. Collaborated with frontend developers, product owners, and QA engineers to ensure timely and high-quality delivery of software products.

PROJECTS

Full stack Django application to Support Self Directed Learning

- Upgraded the learning procedure of students by designing a full stack Python Django application that facilitated interactive learning, with a 15% increase in student engagement in discussions and doubts clarification.
- Chartered a platform to learn different programming languages through web implementation. Students at BMSIT use this portal. Conducted assessments and devised new operational processes that led to a 17% increase in student productivity.

Android App for Corporate Food Management

- Created a custom mobile interface to allow corporate employees to view food menus. Effective management of all the guest lists and inventory through the app accelerated sales by 25%.
- Formulated this comprehensive Android app using Java frameworks, and maximized virtual accessibility for users by 68%.