VARSHA CHANDRAHASAREDDY MULANGI

SOFTWARE DEVELOPER

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SUMMARY

Versatile Software Engineer with 3 years of experience in **C#, .NET Core, ASP.NET, SQL Server, JavaScript, TypeScript, and Angular,** specializing in designing secure, scalable backend systems. Proven track record of optimizing performance, enhancing database efficiency, and driving a 30% increase in user engagement at Oregon State University, Accenture, and Infidata Technologies. Skilled in CI/CD, unit testing, and agile development, with a passion for continuous improvement, modern cloud integrations, and shaping innovative product visions.

TECHNICAL SKILLS

Programming Languages: C#, Java, Python, JavaScript, Typescript, HTML, CSS
Frameworks & Libraries: React, Angular, Redux, Node.js, Express.js, Spring Boot, Django, Bootstrap, GraphQL, Next.js, ASP.NET Core Web API, Apache Kafka, Junit.
API Testing & Tools: Swagger UI, Postman
Database: Azure SQL Database, MongoDB, MySQL, Redis, PostgreSQL, Oracle, Firebase, AWS
DevOps & CI/CD Tools: Docker, Kubernetes, Jenkins
Software Development Tools: Xcode, Visual Studio, Sublime, Eclipse, IntelliJ
Version Control: Git, GitHub, Bitbucket, Azure Devops

EDUCATION

MS in Computer Science | Oregon State University, OR — **Aug 2023 – May 2025**

Bachelor of Engineering in Computer Science | Visveswaraya Technological University, India — **Aug 2017 - Jul 2021**

PROFESSIONAL EXPERIENCE

Research Assistant, Oregon State University - Oregon, USA (Remote) — **Jun 2024 – Dec 2024**

- Engineered **SnapStream**, an image processing web app using **Python, Flask, and JavaScript**, enhancing image upload efficiency by **30%** with **D3.js.**
- Seamlessly implemented image processing with **Python's Pillow (PIL)**, reducing processing time by **25%** and improving output quality by **35%.** Enhanced user experience by **20%** through seamless integration of components.
- Implemented **Azure Functions** to process images upon upload to **Azure Blob Storage**, offloading resource-intensive tasks from the main application to the cloud.

Associate Software Engineer | Accenture, India — **Oct 2021 – Aug 2023**

- Created a **Real-Time Investment Monitoring web app** using **C#, ASP.NET Core, Angular, TypeScript, Entity Framework Core, and SQL Server**.
- Developed a **custom plugin** utilizing J.P. Morgan's proprietary **API** to track users' favorite stocks, providing real-time stock data and resulting in a 30% boost in user engagement.
- Integrated J.P. Morgan's proprietary API into the **Investment Monitoring web app** with ASP.NET Core, enabling secure access to real-time financial data, transaction histories, and account management, which improved data accuracy and streamlined portfolio tracking for users.
- Designed an **Email Notification System** using **Quartz.NET and SendGrid** to alert users of stock price changes at predefined thresholds, enabling timely investment decisions and boosting user activity by **20%**.
- Implemented a **real-time dynamic dashboard** using **SignalR** to provide live updates.
- Architected the **base security layer** for the system using **OAuth2 and JWT** authentication, enforcing role-based access control and utilizing data encryption protocols, ensuring secure handling of sensitive financial data while maintaining system efficiency.
- Boosted system performance for **Accenture's healthcare IT** solution by applying **clustered and non-clustered indexing** to **SQL Server tables** and **stored procedures** and utilizing C# multithreading with native **thread pooling** and **batching** in ASP.NET, reducing record processing time by 94.4% for 600,000 records through concurrent processing and asynchronous execution.
- Spearheaded the migration of a legacy financial transaction system from ASP.NET Web Forms to ASP.NET MVC, achieving 95%-unit test coverage using NUnit and Moq, reducing maintenance costs by **15%**, minimizing transaction errors, and enhancing system auditability.
- Established a **CI/CD pipeline** using **Azure DevOps** and leveraged **Jenkins** for pre-release **testing, automating builds and deployments**, reducing deployment time by **50%** and improving development workflow efficiency.
- Ensured scalability, high availability, and resilience by implementing the application on **Microsoft Azure**. Configured **SQL Server** for efficient **relational data management**, integrated **Azure Blob Storage** for secure financial report storage, and utilized auto-scaling features. This approach enhanced system performance, improved reliability, and maintained data security.
- Pioneered the setup of **Azure Service Bus** with topics, subscriptions, and asynchronous messaging to establish fault-tolerant, scalable communication between microservices and external APIs, reducing latency by **40%** and ensuring reliable real-time stock price updates with enhanced message durability and load balancing.

.Net Developer Intern | Infidata Technologies, India — **Mar 2021 – Apr 2021**

- Implemented search and filtering functionality for the **Campus Care** web application for school using **C#, ASP.NET Core, Angular, Redux, and Tailwind CSS**, enabling efficient sorting of health records by location, metrics, and dates, with real-time data updates for accuracy.
- Refactored and tested **REST API** endpoints in **ASP.NET Core** to enhance frontend data support, improving response times by **20%.**
- Collaborated with cross-functional teams to improve codebase quality and documentation.
- Optimized system architecture to align with **Azure standards**, ensuring scalability and efficiency.

PROJECTS

Covid-19 Information Tracker

Built a COVID-19 Information Portal (using .NET Web API, Angular, SQL), integrating real-time chat (Node.js) and implementing OAuth 2.0 for secure system access.

Attendance Management System

Developed a real-time attendance tracking system (Python, Flask) with interactive stats using D3.js, automatically calculating fines based on attendance records.

E-commerce Application

Developed e-commerce application (Java, Spring Boot, SQL) with secure role-based authentication, enabling CRUD operations and integrating Stripe API for secure online payments.