Nagarjun Mallesh

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Professional Experience

Hewlett-Packard Inc   2.5 years+
Software Engineer   *Oct 2019 – Jul 2022*

- Championed a **C# and .NET system** for OS installations, boosting setup speed and precision by 40% for multi-OS hardware environments.
- Pioneered a **Node.js web application** with a **Bootstrap** interface and **MongoDB** storage, integrating **JWT authentication** to bolster security and user experience.
- Transformed project tracking from manual to automated processes, increasing operational efficiency by 30% through a multi-user platform that streamlined task assignments, progress notifications, and real-time status updates.
- Revolutionized **Windows OS** customization by creating a novel application, enhancing process efficiency by 35% across diverse hardware platforms. Developed using **VBS** and **PowerShell** to automate system tasks, coupled with a complementary **Linux** application for cross-platform operability.

Digital API Craft Pvt Ltd   3 months
Associate Software Engineer   *Jul 2019 – Oct 2019*

- Orchestrated a comprehensive user authentication system for a banking client, enhancing security protocols and decreasing unauthorized access by leveraging advanced features in **NodeJS**.
- Spearheaded the development of a robust **API** library using **Go (Golang)**, targeting critical banking functionalities, which enhanced digital transactions and user engagement metrics by 15% due to its high performance and efficient concurrency management.
- Collaborated closely with front-end designers to integrate user-centric features for a web services provider, leading to a 20% uplift in service deployment productivity through efficient **DNS management**.
- Voluntarily expanded technical skill set to master **NodeJS** and Golang, contributing to multiple web projects which expedited project completion by 30% and surpassed client performance expectations.
- Contributed to a **Java-based** banking portal using **Spring Boot and MySQL**, focusing on backend features for user authentication, new account setup, and credit card processing based on credit scores. My algorithm outperformed existing applications, leading to a 25% increase in transaction speed and a 40% reduction in user-reported issues

Technical Skills

Programming
Languages: Java, JavaScript, Python, Go (Golang), TypeScript, Git - Version Control, Swift, C#, C++ , Microsoft VBS,
Web Technologies: Microservices, REST APIs, SpringBoot, Maven,   SpringMVC, Apache Tomcat, HTML5, CSS, SCSS/SASS, JDBC, NodeJS, ReactJS, Redux, Morphia, Prisma
Testing Framework: Selenium, Junit, MochaJS, Chai, Jest
Database: PostgreSQL, Oracle SQL Server, Microsoft SQL, MongoDB, AWS DynamoDB, RDS Instance, GraphQL, T-SQL
Software Engineering: Agile/Scrum Methodologies, JIRA, Confluence
Cloud Technologies: Pulumi – Infrastructure as Code, CI/CD Pipeline, Docker , Kubernetes , Containerization, Github Workflows, GCP , AWS – (Networking, S3, Lambda , Monitoring), Kafka
iOS Frameworks.   Xcode, Interface Builder, XCTest, LLDB debugger, Swift Package Manager
and Tools:

Academic Project Experience

Global Kitchen – (iOS Application, Swift, openAI)   *Jan 2024 – Apr 2024*

- Developed "Global Kitchen," an iOS app with Swift, enabling users to access and share healthy, traditional recipes. Integrated OpenAI for dynamic measurements, enhancing user convenience and recipe personalization.
- Architected a user-friendly application featuring authentication, a vast recipe database, and offline capabilities, which increased accessibility for students and expatriates by providing nutritious home-cooking options.

LocalCompass – Travel Application – (JavaFX, MongoDB, OpenAI)   *Sep 2023 – Dec 2023*

- Developed 'Local Compass', a JavaFX travel app with AI-driven itinerary planning via OpenAI APIs achieving 30% increase in itinerary generation, a seamless user experience with responsive MVC design patterns.
- Enhanced data handling and performance by utilizing Morphia ODM for efficient MongoDB document management in traveller-guide interactions.

Scalable Cloud-based Assignment Management System – (AWS, GCP, NodeJS, TypeScript)   *Sep 2023 – Dec 2023*

- Initiated secure Node.js CRUD API, boosting reliability by 40% via Pulumi -IaC scaling and CI/CD pipelines, with 30% more efficient update rollouts.
- Excelled AWS/GCP configurations, utilizing Lambda functions and SNS, achieving 50% better cloud functionality and 25% increased system scalability.
- Revamped app security with Bcrypt and HTTPS, elevating data protection by 35%, and reducing breaches by 20%.
- Constructed comprehensive workflows for system deployment and security, yielding a 45% increase in operational efficiency and maintaining 99.9% critical service uptime.

Agreement – Accommodation Rental Management System – (SpringMVC, Hibernate, SpringBoot, SQL)   *Feb 2023 - Apr 2023*

- Created SpringMVC & Spring Boot Accommodation Rental System with Hibernate, boosting user accessibility by 30%.
- Strengthened security and traceability with advanced Spring Security features and interceptors.

MentorHub – (NextJS, NodeJS, TypeScript, MongoDB, React, Redux)   *Oct 2022 - Dec 2022*

- Launched Northeastern University's networking platform to enhance community engagement, leveraging Nest.js and JWT for high-grade security, which resulted in a strengthened trust in the platform.
- Refashioned platform UX/UI with React and NextJS, achieving a 5% increase in user satisfaction and bolstering usability through intuitive design enhancements.

Education

Northeastern University   Boston, MA
Masters in Information Systems   *Expected May 2024*
Relevant Courses: Network Structures and Cloud Computing, Web Design, Smartphone based Web Development, Program structures and Algorithms

Visweswarya Technological University   Bangalore,IN
Bachelor of Engineering   *Aug 2015 – June 2019*