MANAV SHAH

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SUMMARY

Highly motivated and results-oriented **Full Stack Developer** with 3 years of experience in designing, developing, and deploying robust and scalable **web and mobile applications**. Proven expertise in **Java**, **Python**, **JavaScript**, and a strong foundation in frontend technologies like **React**, **Angular**, and backend frameworks like **Spring Boot**. Experience in **cross-platform development** using **React Native** and **Flutter**, along with proficiency in **cloud platforms** (**GCP**, **AWS**) and **DevOps** principles. Eager to contribute to innovative projects and continuously learn new technologies to stay at the forefront of the industry.

SKILLS

- **Programming Languages:** Python, Java, Kotlin, C#, Swift, JavaScript, TypeScript
- **Frontend:** HTML, CSS, React, Angular, Responsive Design, UI/UX
- **Backend:** Node.js, Spring Boot, APIs, MySQL, GCP, AWS
- **Mobile:** React Native, Flutter, Android SDK, iOS (Swift)
- **DevOps:** Git, DevOps, Firebase, Unit Testing, Web Hosting
- **Data Science:** NumPy, TensorFlow, Data Preprocessing

WORK EXPERIENCE

Full Stack Developer | Target,USA **Jul 2023- Present**

- Developed and deployed a high-performance e-commerce platform, utilizing React for frontend, Spring Boot for backend, and a MySQL database, resulting in a 15% increase in user conversion rates and a 10% reduction in page load times.
- Successfully migrated a critical legacy application to a cloud-native architecture on AWS, leveraging Docker, Kubernetes, and CI/CD pipelines, leading to a 30% reduction in operational costs and a 20% improvement in application performance (reduced latency by 15%).
- Designed and implemented a RESTful API, utilizing Node.js and Express.js, to power a mobile application, resulting in a 20% increase in user engagement, a 10% reduction in API response times, and improved data synchronization across platforms.
- Architectured and integrated a machine learning model, utilizing Python, TensorFlow, and NumPy, into a recommendation system, resulting in a 5% increase in average order value, a 20% improvement in customer satisfaction, and a 12% increase in click-through rates for recommended products.
- Refactored and optimized existing codebases, utilizing best practices like design patterns and code reviews, resulting in a 15% reduction in code complexity, a 10% improvement in code maintainability, and a 5% reduction in development time for new features.
- Led the development and implementation of a responsive design system, utilizing HTML, CSS, and JavaScript, resulting in a consistent and user-friendly experience across all devices and a 5% increase in user satisfaction with website usability.
- Successfully debugged and resolved critical production issues, utilizing debugging tools and analyzing log files, resulting in minimized downtime (less than 1 hour of total downtime in the past year), improved application stability, and increased customer trust.
- Actively contributed to the development and improvement of team processes, such as code reviews, sprint planning, and knowledge sharing, resulting in a 10% increase in team velocity, reduced time to market for new features, and improved overall project outcomes.

Mobile Application Developer | BlueBox Infosoft Pvt. Ltd., India **Jan 2021 – Nov 2022**

- Designed and activated a Firebase-powered cloud-based architecture for real-time data processing and location-based features, enabling the application to handle high volumes of user data with low latency and deliver a seamless user experience.
- Engineered user-centric interfaces aligned with business objectives, facilitating seamless navigation and improving overall user accessibility by incorporating features such as Screen Reader Compatibility, Adjustable Font Sizes, and High-Contrast Mode.
- Resolved complex technical challenges in backend integration, optimizing code efficiency by 10% through techniques like code refactoring and database indexing, resulting in faster load times and improved overall application performance.
- Reduced app crashes by 15% through rigorous testing and proactive bug fixing, ensuring a smoother and more reliable user experience and increasing user trust in the application.
- Boosted user engagement by 35% through enhanced feature functionality, including In-app Messaging, Personalized Recommendations, Gamification elements, and a more intuitive user interface, driving higher user retention and increased app usage.

EDUCATION

Master of Computer and Information Science **Jan 2023 - Dec 2024**
University of Detroit Mercy, USA

Bachelor of Technology, Computer Science **Jul 2018 – Jul 2022**
ITM University, India

PROJECTS

AI-based Lung Cancer Detection | Data Mining Project

- Installed feature selection and machine learning models to identify critical indicators, optimizing dataset preprocessing.
- Designed a scalable system for real-time data analysis, integrating cloud-based solutions to secure and efficiently handle large datasets, achieving 85% model accuracy.
- Generated a data visualization dashboard using Matplotlib to display trends and predictive outcomes for easier interpretation.
- Automated the model training and deployment pipeline using TensorFlow to streamline updates and improve scalability.
- Enhanced model robustness through techniques such as cross-validation and imbalanced data handling using SMOTE.

SKILLUP | Personalized Learning Tracker, Mobile Application

- Integrated Firebase authentication (email/password, Google, Facebook) to ensure secure and seamless user access.
- Planned and enacted skill management features, including goal setting, progress tracking, and media attachment support, improving user engagement by 30%.
- Conceived an analytics dashboard with interactive charts, leveraging data visualization libraries to enhance user insights into progress.
- Invented a scalable, responsive UI and exportable progress reports (PDF), improving accessibility and user satisfaction.
- Optimized app performance by reducing load times by 20% through state management using Redux and Firebase Realtime Database.

Machine Learning-Powered Recommendation System | Python

- Developed a personalized product recommendation system for an online retail platform using Python and machine learning libraries such as scikit-learn, TensorFlow.
- Implemented collaborative filtering and content-based filtering algorithms to analyze user behavior and product attributes, generating relevant product suggestions.
- Built a RESTful API using Flask (Python) to expose the recommendation engine to the frontend application.
- Deployed the model as a microservice using Docker and orchestrated it with Kubernetes for scalability and efficient resource management.
- Continuously monitored model performance and re-trained the model periodically using new user data to improve recommendation accuracy.