SIDDHESH BHANDE

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SUMMARY

Dynamic and seasoned Principal Front-End Engineer with over 8 years of experience in developing scalable, high-performance cloud-based applications. Specialized in ReactJS, TypeScript, and full-stack development, with a solid foundation in software engineering principles. Demonstrated expertise in leading technology-driven projects to optimize system performance and enhance user experience. Adept at fostering engineering best practices and a culture of quality within teams. Passionate about leveraging generative AI to transform businesses and operations at scale.

EDUCATION

- **University of Maryland Baltimore County, United States**　　　　　　　August 2022 - May 2024
  Master of Science in Computer Science | GPA - 3.9/4
- **University of Mumbai, India**　　　　　　　　　　　　　　　　　　　June 2015 - May 2019
  Bachelor's in Engineering in Computer Engineering | GPA - 3.42/4

TECHNICAL SKILLS

- **Front-End Development:** Expertise in ReactJS, TypeScript, CSS, HTML, React Testing Library, E2E tests
- **Back-End Development:** NodeJS; experienced in building REST API servers
- **Databases:** SQL, PostgreSQL, MongoDB
- **DevOps & Cloud:** Experience with Docker, Kubernetes, Jenkins; familiar with AWS, Azure, GCP
- **Programming Languages:** Python, Java, JavaScript, JQuery
- **Software Engineering:** Strong understanding of algorithms, OOPS concepts

PROFESSIONAL EXPERIENCE

University of Maryland, Baltimore County | Graduate Assistant　　　　　　　　Aug 2023 - Present
- Led the launch of an innovative Artificial Intelligence course at UMBC, integrating advanced AI technologies into the curriculum and enhancing student engagement through hands-on projects, significantly improving their mastery of complex AI concepts.
- Managed and mentored a team of student assistants in curriculum development, demonstrating strong leadership and project management skills.

Tata Consultancy Services | Systems Engineer　　　　　　　　　　　　　June 2019 - July 2022
- Pioneered a UI/UX overhaul for the UK Department of Work and Pensions' child maintenance web app, enhancing service delivery for 846,000 children and driving significant user experience improvements.
- As CR lead, I steered a team of 10 developers to achieve a notable reduction in user interaction time by 8 minutes and successfully executed complex change requests, earning the Star of the Month award in January 2021 for exceptional leadership and project execution.
- Spearheaded a strategic revamp of the Siebel UI to React.js for the Department, delivering £20M in cost savings through performance enhancements and a 9% reduction in system response time, showcasing my ability to lead cost-effective and impactful technological upgrades.
- Collaborated closely with design teams to implement UX enhancements, incorporating inclusive accessibility features that resulted in a 20% increase in compliance, reflecting my commitment to creating inclusive and user-friendly digital environments.
- Championed the professional growth of 30 employees through a comprehensive 1-month web development training program, focusing on Siebel Open UI, demonstrating my dedication to team development and capacity building.

PROJECTS

- **Revolutionary Heart Attack Detection & Prevention with Advanced ML and LIME**　　Nov 2022
- Developed a groundbreaking heart attack detection system, leveraging advanced machine learning algorithms like RandomForestClassifier, MLPClassifier ,and GradientBoostingClassifier with 98% accuracy.

- After 3-fold cross validation, employed LIME for interpretability, unveiling influential factors in predictions, and enabling targeted prevention strategies. Visit: [Heart Attack Detection and Prevention](#) for code.
- **Peer-to-Peer (P2P) File Exchange System with RSA Encryption**   Feb 2023 - May 2023
- Spearheaded the design and development of a secure P2P file exchange platform using Java, integrating RSA encryption to safeguard the confidentiality and integrity of file transfers.
- Innovatively utilized advanced OOP principles, class interfaces, and design patterns to architect a robust, scalable system, deepening my expertise in object-oriented programming and system architecture.
- **Fraudulent Job Detection using Machine Learning**   Feb 2023 - May 2023
- The project revolutionizes job searching and recruitment through advanced methodologies, including strategic sampling, captivating word cloud visualization, and the formidable power of XGBoost.
- With an unparalleled accuracy of 92%, the project exposes deceptive job postings from 88k records with astounding precision, ensuring the identification of fraudulent ads. Visit: [Fake Job Detection](#) for code.
- **Hostel Management System**   May 2018
- Developed a dynamic web application using Node.js, Vue.js, CSS, and SQL, transforming the hostel experience, enabling effortless selection, streamlined booking, and effective grievance management for students and administrators. Visit: [Hostel Management System](#) for code.
- **Cross-Platform Web App for Medical Health Report System**   Mar 2019 - May 2019
- Empowered doctors and patients with a centralized platform for comprehensive health history records, streamlining healthcare interactions and improving patient care.

RELEVANT SKILLS AND ACIEVEMENTS

- Quickly adaptable to new development environments, evidenced by rapid mastery of diverse programming languages and technologies.
- Demonstrated ability to lead projects from concept through deployment, with a keen eye for UI/UX design, aligning with responsibilities of enhancing end-user engagement in Salesforce.
- Collaborative team member with experience in cross-functional project delivery and stakeholder engagement.