

SIDDHESH BHANDE

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SUMMARY

Highly experienced and innovative Senior Principal Engineer specializing in AI/ML and High-Performance Computing (HPC) with over 8 years of demonstrated success in front-end and full-stack development. Adept at leading cross-functional teams to develop scalable, high-performance cloud-based applications. Passionate about leveraging advanced AI/ML technologies and methodologies to drive business transformation and operational excellence.

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

- Languages:** Java, Python, Go, Ruby, Shell Scripts, PowerShell
- Web Development:** HTML5, CSS, PHP, JQuery
- DevOps & Cloud:** Docker, Kubernetes, OpenShift, AWS, Azure, GCP, Ansible, Git
- Databases:** SQL, PostgreSQL, MongoDB
- Tools:** ELK, Prometheus, Grafana
- AI/ML Technologies:** AI/ML pipelines, Nvidia GPU optimization, ML operating systems (e.g., cnvrg.io), Compute Orchestration Platform (e.g., runai)

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.

RELEVANT SKILLS AND ACIEVEMENTS

- Quickly adaptable to new development environments, evidenced by rapid mastery of diverse programming languages and technologies.
- Proven track record of technical and managerial excellence in the development of scalable, high-performance applications.
- Expertise in Kubernetes, OpenShift, and container infrastructure management, aligning with Dell Technologies' focus on AI/ML/HPC service delivery.