

SAKSHI MAHESH WADASKAR

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EDUCATION

Northeastern University

September 2023 - May 2025

Master's, Computer Software Engineering

GPA: 3.61

- Application Engineering and Development, Data Management and Database Design, Web Design and User Experience Engineering, Data Science Engineering Methods, Program Structures and Algorithms.

Savitribai Phule Pune University

August 2017 - October 2020

Bachelor's, Electrical Engineering

GPA: 3.8

- Object Oriented Programming, Data Structures and Algorithms, Computer Architecture, Computer Networks, Machine Learning, Artificial Intelligence, Pattern Recognition, Database Design and Management Systems.

PROFESSIONAL EXPERIENCE

Thoughtworks

Pune, MH, India

Senior Software Engineer

April 2022 - August 2023

- Spearheaded optimization initiatives, achieving a 30% performance boost by managing 100+ concurrent tasks with Java's thread pool, leading to efficient thread allocation and reuse for parallel processing.
- Implemented bidirectional communication in the web application, reducing latency by 50% through low latency WebSocket communication, resulting in a 25% decrease in page load times.
- Led the deployment of over 20+ AWS Lambda functions, EC2 instances, and RDS databases, reducing manual intervention by 40% and optimizing system performance by 30%.
- Utilized Elasticsearch for real-time monitoring and log analysis, leading to a 40% reduction in downtime by proactively identifying and rectifying issues, thereby enhancing system reliability and user experience.

Thoughtworks

Pune, MH, India

Software Engineer

April 2021 - April 2022

- Enhanced Webpack configuration to ensure 25% quicker build times and 15% smaller bundle size in React apps improving page load times, resulting in user satisfaction.
- Developed a RESTful API with Python Flask, implementing caching mechanisms with Redis to reduce response time by 30% and improve system reliability by 20%.
- Devised comprehensive JUnit and Mockito testing strategies, resulting in a 35% reduction in post-release defects, ensuring high-quality software delivery and significantly enhancing overall system reliability.
- Implemented continuous integration and deployment (CI/CD) pipelines using Jenkins and Docker for Angular.js applications, automating software build, testing, and deployment processes, resulting in a 25% reduction in release cycles.

Viprush Technologies Pvt. Ltd.

Nagpur, MH, India

Graduate Software Engineer

November 2020 - March 2021

- Engineered a License Plate Recognition (LPR) system using advanced deep learning algorithms, TensorFlow framework, NLP technologies, and computer vision techniques, resulting in a remarkable 30% increase in accuracy and a 20% reduction in processing time, thereby optimizing system performance for real-world applications.
- Utilized SQL queries to preprocess and extract features from large-scale data sets for machine learning models, implementing optimization strategies to improve query performance by 15% and reduce latency.

PROJECTS & OUTSIDE EXPERIENCE

Eco Engage Portal—React.js, TypeScript, MongoDB, Node.js, Express.js.

- Developed the Eco-Engage Portal using React.js, TypeScript, MongoDB and Node.js, increasing user engagement by 40% through an intuitive UI, RESTful APIs, JWT token authentication, and social networking features.
- Integrated Leaflet for map visualization, boosting engagement by 30% with event locations, fostering climate change awareness.
- [Link to project](#)

Interactive Travel Planner—React.js, TypeScript, MongoDB, Express.js, jQuery, Mapbox API.

- Developed and designed the front-end by using HTML, CSS, and React.js, allowing users to discover destinations, plan itineraries, and collaborate with others.
- Incorporated MongoDB and Express.js to handle data management in the backend, and Mapbox API for interactive map display and to improve user experience with real time updates.

E-commerce Segmentation & Recommender— Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn.

- Analyzed 3 million grocery orders to identify product associations, developed ANN and XGBoost models achieving 91% and 84% accuracy, and employed K-Means clustering and PCA for 85% accurate customer segmentation with Market Basket Analysis for targeted marketing.

SKILLS

Languages: C/C++, Java, Python, R, JavaScript, TypeScript, Kotlin

Operating Systems and Databases: Linux/Unix, MySQL, Microsoft SQL Server, MongoDB, AWS, Firebase, NoSQL

Web design and Frameworks: HTML/CSS, SCSS, Bootstrap, Java Swing, React.js, Node.js, Selenium, Angular, Express.js, Next.js

Tools and Technologies: IntelliJ, Android Studio, Docker, PyCharm, Power BI, Tableau, Visual Studio, CI/CD, Git, MATLAB, Office 365