SAMEER ASHOK BALKAWADE

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EDUCATION

Syracuse University, Syracuse, NY | Master of Science, Major in Computer Science | CGPA: 3.33 ***August 2023 - May 2025***

Savitribai Phule Pune University, INDIA | Bachelor of Engineering, Computer Science | GPA: 8.13 ***August 2017 - May 2021***

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python, C#, C++, SQL, HTML5, CSS3, XML, JSON
Frameworks: ReactJS, NodeJS, Next.js, ASP.NET Core, ASP.NET MVC, .NET Framework, Bootstrap, Angular
Database Technologies: MongoDB, PostgreSQL, MySQL, Microsoft SQL Server, SQLite, Firebase, Oracle, PL/SQL
Cloud & DevOps: AWS, Azure DevOps, GitHub Codespaces, Docker, CI/CD Pipelines, YAML
Development Tools: Jenkins, GitHub, GitLab CI/CD, Visual Studio, VS Code, Postman, Azure DevOps, Selenium
Web Technologies: RESTful APIs, Microservices, SOAP, Web Services, RabbitMQ, ElasticSearch
Development Practices: Agile Methodologies (Scrum), Test-Driven Development (TDD), Version Control (Git)

EXPERIENCE

***Full-Stack Developer Intern* | MissPoppins Inc. | California, United States** **September 2024 – December 2024**

- Engineered **customer-facing features** for dashboards and mobile app features using **MERN** stack, **React**, **NodeJS**, and **TypeScript**.
- Automated email communications by crafting **Pug** email templates, accelerating development and scalability, driving a projected 30% increase in response rates based on the industry's best practices.
- Streamlined real-time communication by building an **SSR**-disabled self-service chat page with **Next.js**, **React**, **Sendbird UIKit**, and **Sendbird API** and rectified a critical channel URL handling bug, restoring 100% chat functionality.

***Software Engineer* | Nihilent Ltd. | Pune, India** **August 2021 - June 2023**

- Led a team of 7 developers to build a **.NET**-based E-Commerce platform using **Angular**, **TypeScript, HTML5, CSS3, MVC**, and **layered architecture**, following **SDLC** and **Agile** development methodologies for scalable and efficient delivery.
- Developed **tokenized authentication, RBAC** and **REST APIs**, reducing unauthorized access risks by 90% and improving system interoperability, handling 1,000 requests/sec in a real-time application environment.
- Implemented **Elasticsearch** to enhance search performance, reducing query latency by 40% in a high-traffic e-commerce system.
- Resolved over 50 critical bugs, including **functional**, **UI/UX**, and **data integrity/database**-related issues, in the legacy 'Multichoice' project, while delivering multiple **PBIs**. This significantly improved system stability and enhanced monitoring and troubleshooting, reducing user-reported issues.
- Revamped and migrated **microservice APIs** to **Web APIs** using **Azure DevOps** and **CI/CD**, reducing build and release times by 40%, automating 85% of deployment tasks, cutting manual intervention by 70%, and accelerating deployment from 30 minutes to 10 minutes.

TECHNICAL PROJECTS

Shuttle Ride Management System **November 2024**

- Engineered and optimized a scalable and secure **MERN** stack application, integrating **Node.js** and **Express** to implement **JWT-based authentication** and role-based access control **(RBAC)**, securing 100% of user ride management and shuttle operations.
- Optimized **MongoDB** schema and queries using **repository** and **factory patterns**, reducing query time from 500ms to 200ms. This enhanced real-time shuttle tracking, ride updates, and system responsiveness, supporting 1,000+ concurrent users.
- Developed reusable **React** components with the **Container-Presenter pattern**, improving maintainability and reducing redundant code by 30%. Boosted UI responsiveness by 40% and increased user engagement by 35% through **WebSockets** and **RESTful APIs** integration**.**

Reddit WallStreetBets Sentiment Analysis | Github **November 2023**

- Analyzed **sentiment** and **risk tolerance** in **WallStreetBets** posts using **NLP techniques,** including **Vader, GloVe embeddings, and LSTM,** ensuring **Linux** compatibility and hardware optimization.
- Performed **sentiment polarity analysis** with **NLTK's Sentiment Intensity Analyzer,** enhancing models with **Pandas** to boost accuracy by 15%.
- Visualized sentiment using **Matplotlib** and **Seaborn** for comprehensive characterization of discourse**.**

Skin Lesions Data Augmentation using DCGAN **May 2021**

- Architected and implemented a **DCGAN** to generate synthetic skin lesion images, increasing **dataset** size by 72% and elevating **CNN** model accuracy by 9% for skin lesion analysis.
- Contributed to dermatology advancements with a larger, diverse dataset, published in **IRJET** [1] [2], fostering further research in medical image analysis.

Android-based application for College Fest **December 2020**

- Launched an Android application for online college event registration and advertisement using **Gradle** and **Git**, ensuring responsive design. Integrated **RESTful APIs** and **Firebase** for **authentication**, storage, and user data (**EHRs**) management.
- Implemented advanced app development features, integrating **Google Maps APIs** for location-based services and sophisticated animations. Ensured hardware compatibility and troubleshooting, driving a **20% boost** in participant registrations.

LEADERSHIP AND ACHIEVEMENTS

- Presented lectures on **data structures** and **algorithms** to 80 Student Coding Club members, fostering technical growth and collaboration.
- Achieved Technical Excellence Award for streamlining the College portal, resolving performance bottlenecks to support 35% elevation in high-volume traffic.