

DHAIRYA CHHABRA

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EXPERIENCE

Software Developer Intern - AFour Technologies

Pune, India

Full-time

March 2023 – March 2024

- **Developed a comprehensive resignation portal** for the company's ERP system, utilizing **React.js, NestJS, and MongoDB**, significantly improving employee offboarding efficiency by automating manual task and reducing processing time.
- **Collaborated with a team of 6 engineers** to enhance existing system metrics and optimize business logic, resulting in a more streamlined and robust codebase that improved system reliability and overall performance.
- **Refactored legacy code**, reducing front-end compile time by 10% and saving developers up to 1 hour daily, leveraging Redux, Redux-Saga, and React-Router to enhance maintainability and scalability of the application.

Full Stack Developer Intern – Digilytics Systems LLP

Pune, India

Full-Time

December 2021 -May 2022

- **Extensively developed with React.js**, gaining hands-on experience in enterprise-grade software development within an Agile and Scrum framework, focusing on building scalable and responsive components.
- Led the development of a **No-Code web application**, enabling users to create static websites through **drag-and-drop features**, collaborating closely with a **team of 3 developers** to deliver a versatile and intuitive platform.
- **Enhanced code quality** by adhering to clean code practices and implementing user-friendly UI designs, improving overall user experience and maintainability while increasing code readability and facilitating easy future enhancements.

EDUCATION

San Diego State University

San Diego, California

Masters in Computer Science – August 2024 -June 2026

Savitribai Phule Pune University

Pune, India

Bachelors in Engineering – Computer Engineering - (CGPA 9.09) August 2019 - June 2023

SKILLS SUMMARY

- **Languages:** JavaScript (ES5/ES6), C, C++, HTML5, Python, JAVA, PHP and CSS3
- **Frameworks:** Node.js, Next JS, Express.js, Tensorflow/Pytorch, MongoDB, React.js, MySQL and Firebase
- **Tools:** Git, GitHub, Matplotlib/Seaborn, Pandas, PowerBI, Linux, Docker, Supabase and NoSQL
- **Skills:** Software Development, Agile, Full-Stack, Micro-services, Algorithms, Data Science & Analytics

PROJECTS

Wordcorn ([Link](#)) | NextJS, Supabase, Python, Git

- **Developed a seamless English vocabulary learning platform** that incorporates synonyms, antonyms, mnemonics, videos, and images, offering an engaging and comprehensive learning experience.
- **Integrated quizzes and goal-tracking features** to boost user learning efficiency by 40%, significantly improving vocabulary retention rates and promoting consistent progress among users over time.
- **Leveraged Supabase for real-time database management** and Python for backend logic, ensuring a smooth and responsive user experience, while maintaining high performance and reliability standards.

Healthcare Information Exchange using Blockchain | React, Solidity, MetaMask, SQL

- Engineered a robust patient data exchange system using **blockchain technology**, leading to a 15% reduction in data breaches and enhancing overall data security and integrity.
- Secure authentication integration with the **SQL** database and **MetaMask** wallet improved user verification accuracy by 25%, streamlining the login process and minimizing unauthorized access.
- Seamlessly connecting MetaMask to the web application via **Web3.js** ensured a 99.9% reliable data transactional process, providing users with a secure and efficient way to manage transaction.

Sentiment Analysis on Twitter Data using TensorFlow | Python, TensorFlow, NLTK, AWS (EC2,S3)

- Built a sentiment analysis model using TensorFlow to classify tweets as positive, negative, or neutral, achieving 87% accuracy on a test dataset, through extensive preprocessing and feature engineering techniques.
- Leveraged AWS SageMaker for model training and hyperparameter tuning, optimizing performance with minimal manual intervention, which resulted in faster model convergence and improved accuracy.
- Integrated the model with a live Twitter data stream, utilizing AWS EC2 and S3 for data processing and storage, enabling real-time sentiment analysis, and providing actionable insights for social media monitoring.

Publications

- Chhabra, Dhairya, et al. "Healthcare Information Exchange Using Blockchain Technology." International Conference on Communication and Intelligent Systems. Singapore: Springer Nature Singapore, 2022. ([Link](#))