

DHAIRYA CHHABRA

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Education

San Diego State University | *M.S in Computer Science, San Diego, CA* **Aug. 2024 – May 2026**
Savitribai Phule Pune University | *B.E in Computer Engineering, India* **Aug. 2019 – May 2023**

Work Experience

SDSU Research Foundation | **TechStack:** Python, SHELL, Docker **Sep. 2024 – Dec. 2024**
Research Assistant, Part-Time San Diego, CA

- Developed and maintained modular Python scripts to automate the MRIQC pipeline, incorporating logging, error handling, and unit testing to ensure code reliability and maintainability across research projects.
- Analyzed MRI data and performed ETL to clean and process large datasets; generated detailed visual reports to support research and clinical diagnosis, improving understanding and assessment of ASD-related neuroanatomical features.
- Containerized the MRIQC pipeline using Docker to create a consistent and reproducible environment for processing MRI data, which **reduced setup time by 30%** and ensured reliable quality control across different systems.

Afour Technologies | **TechStack:** ReactJS, NextJS, NodeJS, Java, MongoDB, AWS **Mar. 2023 – Mar. 2024**
Software Engineer (Full-Stack) Pune, India

- Deployed and maintained AI-powered React apps with dynamic data on AWS, improving uptime and efficiency through automated workflows and performance tuning – **achieved 99.9% uptime** and a **20% boost in deployment** efficiency.
- Built a resignation portal for the ERP system using React.js, NodeJS, and MongoDB, **creating robust APIs and integrating a relational database** which enhanced system efficiency and user experience.
- Refactored complex legacy code and optimized critical business logic, **cutting front-end compile time by 10%** to significantly boost developer efficiency and accelerate product release cycles.
- Optimized Java-based APIs to retrieve only relevant data, improving data handling efficiency and reducing response time, which **enhanced overall software performance by 50%**.

Digilytics Systems LLP | **TechStack:** ReactJS, NodeJS, Python, Team Leadership **Dec. 2021 – May 2022**
Software Engineer Intern Pune, India

- Led a team of 5 developers** to build a No-Code web application with drag-and-drop functionality, **enabling over 500+ non-technical users** to create static websites easily, **increasing their sales by ~ 20%**.
- Developed scalable and responsive components using React.js within an Agile, Scrum framework; built distributed systems to improve software performance and gained hands-on experience in enterprise-grade development.
- Enhanced code quality by following clean code practices and designing a user-friendly UI, which **improved user experience by 30%** and maintainability by reducing code complexity by 25%, while increasing code readability and enabling faster future enhancements.

Projects

Wordcorn 🌀 | **TechStack:** NextJS, Typescript, NodeJS, Python

- Developed an English vocabulary learning platform using NextJS, **attracting 1,300+ users** and **increasing learning efficiency by 40%** through interactive quizzes and goal-tracking features.
- Leveraged Supabase and Python to develop an AI-based learning platform with real-time updates, **reducing response time by 35%** and increasing user engagement by 25% through personalized **Gen AI-driven content**.

Healthcare Information Exchange using Blockchain 🌀 | **TechStack:** React Native, Web3, MYSQL

- Developed a secure patient data exchange system using React Native for the frontend and MetaMask for secure transactions, **reducing data breaches by 15%** and increasing user verification accuracy by 25% through secure SQL integration.

BudgetWise - Expense Manager 🌀 | **TechStack:** ReactJS, NodeJS, MongoDB, Python

- Developed BudgetWise using NodeJS and ReactJS to manage monthly expenses, helping **users save 10% monthly by improving spending** control and enhancing web page loading speed for a smoother user experience.
- Implemented Redux and ContextAPI to **manage global state efficiently**, allowing seamless data flow and enhancing user experience for real-time expense tracking.

Technical Skills

Languages: Javascript, Python, Java, HTML, CSS, GraphQL, C++, C#, Typescript

Software Development: ReactJS, NextJS, NodeJS, Redux, Context API, FastAPI, React Native, Microservices

Tools: Jira, Git, Notion, Confluence, Supabase, Jenkins, Docker, PowerBI, Postman

Backend Infrastructure: AWS S3, ECS, Api Gateway, Redis, Kubernetes

Testing: Jest, Cypress, React testing library, Storybook

Development Practices: CI/CD, A/B Testing, Agile, TDD, State Management