

ARJIT AGARWAL

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Summary

Detail-oriented React.js Developer with over **2 years** of experience building scalable, high-performance web applications using **React.js, TypeScript**, Python and FastAPI.. Skilled in translating designs into reusable components, optimizing speed and scalability, and integrating with **RESTful APIs**. Proven collaborator with cross-functional teams, delivering intuitive user experiences with a focus on clean, maintainable code.

Education

North Carolina State University

Master of Computer Science (MCS)

Relevant Coursework: Software Engineering, Neural Networks, Cloud Computing

Raleigh

Expected May 2025

Pune University

Bachelor of Engineering, Information Technology (CGPA: 9.3/10)

May 2023

Skills

Frontend Development: React.js, Next.js, JavaScript (ES6+), TypeScript, HTML5, CSS3 (TailwindCSS, SASS), python

State Management: Redux, zustand

Build Tools: Webpack, Babel, NPM

Database: GraphQL, SQL, MongoDB, Postgres

Testing: Jest, React Testing Library (Unit Testing)

DevOps & Cloud: Docker, Kubernetes, AWS, Jenkins

Key Competencies: Performance Optimization, UI/UX Design, Cross-Browser Compatibility, Problem-Solving, Git

Work Experience

Software Engineer Intern

Ciena Corporation

Boston, MA

May 2024 - Dec 2024

- Developed a Python-based testing toolkit to automate unit and integration tests for microservices, reducing manual testing time by 40% and enabling faster release cycles.
- Integrated the toolkit into a Jenkins CI/CD pipeline, providing real-time feedback to streamline developer workflows

Graduate Assistant

North Carolina State University

Raleigh, NC

Jan 2024 - May 2024

- Built interactive risk assessment tools with React.js and TypeScript, enabling researchers to visualize complex data sets with real-time updates.
- Connected tools to a NestJS backend via RESTful APIs, ensuring seamless data flow and boosting user engagement by 40%.

Founding Engineer Intern

Bitglaze Technologies

Remote

Jan 2022 - May 2023

- Created a React.js UI component library with 50+ reusable components based on atomic design principles, reducing code duplication by 55%.
- Architected the frontend and backend of a No-Code MLOps platform using Next.js, React.js, AWS S3 and Docker , enabling non-technical users to deploy ML models via a drag-and-drop interface, cutting development time by 35%.

Projects

Generative AI Context Chatbot (RAG App)

- Designed a responsive, context-aware interface with **React.js** and **TailwindCSS**, optimized for performance and cross-browser compatibility.
- Integrated FastAPI and Langchain for real-time NLP, delivering accurate responses with caching to reduce load times..

LLM Call Agent with Backend Function Execution

- Developed a Flask-based web app with HTML and CSS that triggers an AI agent to call a specified number and collect birth date information.
- Executed a backend function to display the confirmed birth date on the webpage, ensuring a smooth and interactive user experience.

AI-Powered Customer Interaction Monitor (Hackathon Winner)

- Developed a real-time tracking system with YOLOv4 for object detection and DeepSORT for behavior analysis in retail settings.
- Awarded top three recognition at Tractor Supply's "Life Out Here" AI/ML Hackathon.