AKSHAY TRIPATHI

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Experience

Software Development Engineer — July 2023 − Present
Shorthills AI, Gurugram, India

− Led the development of dynamic components using **Next.js**, enhancing web application efficiency by 30%.
− Built and integrated over **15+ responsive UI components** with **React.js, Material-UI, and Bootstrap**, improving user engagement.
− Developed backend APIs using **FastAPI**, leading to a 20% improvement in data communication performance.
− Utilized **Ngrok** for remote testing, streamlining the deployment process.
− Implemented **Pedigree.js** for complex data visualization in React applications.
− Fine-tuned **LLaMA 3 models** for NLP tasks, increasing accuracy by 25%.
− Collaborated with cross-functional teams following **Agile methodologies**, ensuring timely delivery of features.
− Optimized codebase for scalability and maintainability, reducing technical debt by 15%.

Web Developer Intern — June 2022 − July 2022
Exposys Data Labs, Remote

− Designed and deployed a responsive website using **HTML**, **CSS**, and **JavaScript**.
− Integrated dynamic features and successfully deployed the project on GitHub, ensuring version control and collaboration.
− Implemented user authentication and authorization mechanisms to enhance security.
− Conducted code reviews and collaborated with senior developers to improve coding standards.

Skills

Programming Languages: Python, JavaScript, C++, Java

Web Technologies: React.js, Next.js, Redux, HTML5, CSS3, Tailwind CSS, Bootstrap, Material-UI, jQuery, FastAPI, Node.js, Express.js, Django, Flask, MySQL, SQLite, MongoDB

Tools and Platforms: Git/GitHub, Linux, Firebase, Docker, AWS, Ngrok, Algorithms, Data Structures, OOP, RESTful APIs, CI/CD, Unit Testing (Jest, PyTest)

Education

B.Tech in Electronics Engineering — July 2019 − Aug 2023
Kamla Nehru Institute of Technology, Uttar Pradesh — *CGPA: 9.21/10.0*

Projects

TaskManager Pro — August 2023
React.js, Node.js, MongoDB

− Developed a full-stack task management application with user authentication, task categorization, and deadline reminders.
− Implemented RESTful APIs in **Node.js** to manage tasks and users, achieving seamless integration between frontend and backend.
− Optimized **MongoDB** queries to improve application performance, reducing data fetch time by 35%.

SmartShopper — April 2023
Next.js, Python, FastAPI, MySQL

− Created a web application that provides personalized shopping recommendations based on user preferences and purchase history.
− Integrated a recommendation engine using collaborative filtering techniques, increasing user engagement by 20%.
− Developed and deployed the backend with **FastAPI**, ensuring a fast and scalable application.

Achievements

Ranked in the Top 5% in the **NPTEL Online Certification Course** on "Digital Circuits" by **IIT Kharagpur**.

Completed an online workshop on **Artificial Intelligence: Theory and Application**.

Participated in multiple hackathons, securing top positions for innovative project ideas and implementation.

Certifications

Web Development Bootcamp (Udemy) - Focused on React.js and Node.js.

React.js Essential Training (LinkedIn Learning)

AWS Essential Training for Developers (LinkedIn Learning) - Covered cloud computing, serverless architecture.