

Deepanshu Chalia

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Education

Southern Methodist University Master of Science in Computer Engineering	Graduation date: May 2024
Punjab Engineering College Bachelor of Technology in Electrical Engineering	Graduation date: June 2021

Work Experience

The Keelworks Foundation Software Developer Volunteer	Oak Harbor, WA July 2024 - Present
<ul style="list-style-type: none">Deployed a comprehensive training management application using React, Node.js, Express, and MongoDB to track course completion streamline training processes for KeelworksForged robust connections between front-end and back-end systems to optimize data flow ensuring a superior user experience	

Headstarter Corporation Software Engineer Fellowship	Santa Clara, CA July 2024 - August 2024
<ul style="list-style-type: none">Constructed 5+ AI-driven apps and APIs with NextJS, OpenAI, Pinecone, and StripeAPI, attaining a 98% success rate based on 1000 user evaluationsLed a team of 4+ engineers, implementing MVC architecture to deliver projects from inception to deploymentEnhanced technical expertise through coaching from Amazon, Bloomberg, and Capital One, mastering Agile, CI/CD, Git, and microservices	

J.S. Auto Private Limited Junior Developer	New Delhi, India June 2021 - Aug 2022
<ul style="list-style-type: none">Developed and maintained over 15 web applications using React and Node.js, reducing latency by 30% and increasing user engagement by 25%Streamlined data processing by automating key tasks with Python, cutting down manual efforts by 40% and saving the team around 10 hours of work each week	

Projects

Chatbot	https://github.com/Headstarter-fellowship-projects/ai_customer/tree/Deep
<ul style="list-style-type: none">Developed a tailored conversational AI system employing Next.js and OpenAIIncorporated user authentication to enhance the user experience and employed Firebase for data storageUtilized AWS Bedrock API to enhance the user experience with a diverse range of features, including image generation and code building	

Inventory Management	https://github.com/chalia082/Inventory-Management-System
<ul style="list-style-type: none">Created a inventory management application that allows users to keep track of grocery items by adding or removing items and updating their quantitiesUtilized Next.js for the frontend framework, Material UI for the UI components, and Firebase as the backend	

3D Object Detection	https://github.com/chalia082/3D-Object-Detection
<ul style="list-style-type: none">Deployed projective image processing for precise dimensioning of a box moving on a conveyor beltCorrected image distortions with camera parameters and distinguished surfaces using histogram and peak detection achieving a 15% improvement in object detection precision	

Sports League Database	https://github.com/chalia082/Sports-League-Database
<ul style="list-style-type: none">Engineered a web app for sports league management, supporting 500+ scheduled games and real-time updatesIncorporated Python and Django enhancing operational efficiency by 30%	

Skills

Software Development: Python, C/C++, Java, SQL, JavaScript, TypeScript, HTML/CSS, Bootstrap, React, Node.JS, Next.JS Flask, Express, Axios, RestAPI, OpenCV, Postman, Django

DevOps & Cloud Infrastructure: AWS, Kubernetes, Docker, Azure, LangChain, CI/CD

Databases & Data Management: MongoDB, Firebase, MySQL, PostgreSQL, Talend

Version Control & Development Workflow: Gitlab, VS Code, Fly.IO, Vercel, Linux