

# Deepanshu Chalia

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## Education

<b>Southern Methodist University</b> Master of Science in Computer Engineering	<b>Graduation date:</b> 2022-2024
<b>Punjab Engineering College</b> Bachelor of Technology in Electrical Engineering	<b>Graduation date:</b> 2017-2021

## Work Experience

<b>The Keelworks Foundation</b> <b>Software Developer Volunteer</b> <ul style="list-style-type: none"><li>Deploying a comprehensive training management application using React, Node.js, Express, and MongoDB to track course completion and streamline training processes for Keelworks.</li><li>Forging robust connections between front-end and back-end systems to optimize data flow, ensuring a seamless user experience.</li><li>Designing user interfaces with Figma and building reusable components with Shadcn, focusing on intuitive layouts and user-centric design principles to enhance engagement.</li></ul>	Oak Harbor, WA July 2024 - Present
<b>Southern Methodist University</b> <b>Graduate Research Assistant</b> <ul style="list-style-type: none"><li>Designed and developed visualization dashboards using React and Node.js to demonstrate applications of LLMs like LLaMA and OpenAI, showcasing their potential in predictive modelling.</li><li>Utilizing LLMs to clean and preprocess data, significantly improving the accuracy and reliability of analysis results.</li><li>Implemented Material UI to design an intuitive and responsive interface, ensuring consistency and ease of use across the application.</li><li>Delivered an efficient, user-friendly system that improved data clarity, model performance, and user engagement across multiple tasks.</li></ul>	Dallas, TX Aug 2023 - Dec 2023
<b>J.S. Auto Private Limited</b> <b>Junior Developer</b> <ul style="list-style-type: none"><li>Engineered a streamlined development environment using Node.js for backend, Express for APIs, and Vercel for deployment, optimizing project workflows.</li><li>Developed and maintained 15+ web applications with React and Node.js, cutting latency by 30% and boosting user engagement by 25%.</li><li>Automated key data processing tasks with Python, reducing manual effort by 30% and saving 10 hours send-weekly.</li></ul>	New Delhi, India June 2020 - Aug 2022

## Projects

<b>Saas Platform</b> <ul style="list-style-type: none"><li>Developed a SaaS platform using Next.js, Clerk, and Firebase.</li><li>Integrated Stripe's API to enable seamless subscription management and payment processing.</li><li>Created an AI-powered learning tool that adapts to user preferences and learning styles.</li></ul>	<a href="#">Link</a>
<b>3D Object Detection</b> <ul style="list-style-type: none"><li>Deployed projective image processing for precise dimensioning of a box moving on a conveyor belt.</li><li>Corrected image distortions with camera parameters and distinguished surfaces using histogram and peak detection achieving a 15% improvement in object detection precision.</li></ul>	<a href="#">Link</a>
<b>Sports League Database</b> <ul style="list-style-type: none"><li>Engineered a web app for sports league management, supporting 500+ scheduled games and real-time updates.</li><li>Incorporated Python and Django enhancing operational efficiency by 30%.</li></ul>	<a href="#">Link</a>

## Skills

<b>Programming Languages:</b> Python, JavaScript, Java, SQL, C/C++, TypeScript
<b>Frontend &amp; Backend Frameworks:</b> HTML/CSS, React, Next.js, Node.js, Flask, Express, Django
<b>APIs &amp; Libraries:</b> Axios, RestAPI, OpenAI, OpenCV, Postman, Clerk, Stripe, MaterialUI, Shadcn
<b>DevOps &amp; Cloud Infrastructure:</b> AWS, Kubernetes, Docker, Azure, LangChain, CI/CD
<b>Databases &amp; Data Management:</b> MongoDB, Firebase, MySQL, PostgreSQL, Talend Version Control &
<b>Development Workflow:</b> Gitlab, VS Code, Fly.IO, Vercel