

# Deepanshu Chalia

Dallas, TX | [dchalia@smu.edu](mailto:dchalia@smu.edu) | 214-984-0925 | <https://dchalia.com/>

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

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

<b>J.S. Auto Private Limited</b> <b>Junior Developer</b>	New Delhi, India June 2021 - Aug 2022
<ul style="list-style-type: none"><li>Developed and maintained over 15 web applications using React and Node.js, reducing latency by 30% and increasing user engagement by 25%</li><li>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</li></ul>	

## Projects

<b>SaaS Platform</b>	<a href="https://github.com/Headstarter-fellowship-projects/flashcard-saas/tree/Deep">https://github.com/Headstarter-fellowship-projects/flashcard-saas/tree/Deep</a>
<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>	

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

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

<b>3D Object Detection</b>	<a href="https://github.com/chalia082/3D-Object-Detection">https://github.com/chalia082/3D-Object-Detection</a>
<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>	

<b>Sports League Database</b>	<a href="https://github.com/chalia082/Sports-League-Database">https://github.com/chalia082/Sports-League-Database</a>
<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>	

## Skills

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

**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