

# Deepanshu Chalia, M.S.

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## Education

**Southern Methodist University** Dallas, TX

Master of Science in Computer Engineering, **GPA: 3.6**

Associations: Human/ML Game Research Lab, Microcontroller Architecture & Interfacing, Digital Systems Design

**Punjab Engineering College** Chandigarh, India

Bachelor of Technology in Electrical Engineering, **GPA: 3.1**

Associations: Institute of Electrical and Electronics Engineers (IEEE), High Voltage Engineering, Power Electronics

## Industry Experience

**The Keelworks Foundation** Dallas, TX

Software Developer Present

- Developing an e-learning system to track course completion and streamline end-user L&D process
- Collecting and analyzing user interaction data to identify learning trends and optimize engagement strategies
- Collaborating in software implementation testing, gathering feedback to enhance system performance and ensure data accuracy

**Southern Methodist University** Dallas, TX

Graduate Research Assistant Dec 2023

- Built dashboards to synchronize user prompts using AI agents for thesis presentation under Dr. Corey Clark
- Created comprehensive training modules for AI tools enabling efficient user onboarding

**J.S. Auto Private Limited** New Delhi, India

Software Engineer Aug 2022

- Automated inventory tracking across parts and materials supply chain ecosystem, boosting data accuracy by 12% and enabling real-time forecasting to align manufacturing with incoming demand
- Accounted for delivery and manufacturing lead times, reducing delays and improving production scheduling
- Analyzed 36 months sales records to identify underlying seasonal trends and predict MOM revenue

## Projects

*Grocery Inventory Management* Present

- Designing food and grocery item management system to track shelf life and generate alerts for expiring items
- Incorporating AI features to categorize freshness and generate future reorder schedule
- Built an interactive UI for a seamless user experience, integrating a chatbot for real-time assistance

*Cynsus: A Startup Community* Present

- Developing a platform to connect entrepreneurs with investors
- Integrating Stripe API to enable seamless subscription management and payment processing

*Sports League Database* Jun 2024

- Engineered web app for sports league, supporting 500+ scheduled games for SMU college football team
- Implemented athlete stat tracking to provide overall performance ratings throughout the league.

## Skills

Microsoft Excel	Data filtering, Sorting, Pivot tables, Macros, Vlookup
Programming Languages	Python, Java, JavaScript, SQL
Frontend Development	React, Next.js, React Native, Swift, Flutter
Backend Development	Node.js, Flask, Express, Spring Boot, Swift, Axios, RestAPI, Postman, Clerk, Stripe
UI/UX Tools	Material UI, Shadcn, Tailwind, Radix-UI
Cloud Infrastructure	Oracle Cloud, AWS (S3, DynamoDB), Docker, Kubernetes, CI/CD
Databases Management	MongoDB, Firebase, MySQL, PostgreSQL
Development Workflow	Gitlab, VS Code, Vercel, Agile, Scrum