

Tushar Ranjan

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EDUCATION

Master of Science, Computer Science , Drexel University, Philadelphia	Sep 2023- June 2025
Artificial Intelligence, Computer Vision, Data Structures and Algorithms, Developing user Interface, Computer Networks, Software Project Management	
GPA: 3.85/4.0	
Bachelor of Engineering, Information Science , DSCE, Bangalore, India	Aug 2019 – June 2023
CGPA: 8.67/10	

SKILLS

Programming Languages:	Python, Html, CSS, Javascript, Java
Libraries/Frameworks:	React.js, Django, Numpy, Pandas, Flask, Node.js, Langchain, Llama3, Cohere, Qdrant
Tools / Platforms:	Git and Github, MATLAB, Figma, Linux, AWS, Oracle Cloud Infrastructure, tmux, nginx, Supabase
Databases:	MySQL, MongoDB, PostgreSQL
Technologies:	Large Language Models (LLM), Retrieval-Augmented Generation (RAG)

WORK EXPERIENCE

Business Web Solutions Web Development Intern	March 2023 - May 2023
<ul style="list-style-type: none">Enhanced User Engagement: Boosted user engagement by 30% across 5+ projects using advanced front-end technologies.Server-Side Efficiency: Increased server-side efficiency by 25% by optimizing back-end code and improving resource management, reducing load times and enhancing user experience.Component Development: Led the development of over 10 React JS components, boosting site traffic by 20%.Process Improvement: Streamlined Git/GitHub processes for three development teams, reducing merge conflicts by 40% and enhancing code integration efficiency.	
M-Kube Front-End Web Development Intern Sydney, Australia (Remote)	March 2022 - June 2022
<ul style="list-style-type: none">Front-End Revamp: Led the redesign of the website's front-end, increasing user engagement by 35% through improved responsive design and feature integration.Project Delivery Efficiency: Achieved a 40% increase in project delivery efficiency by driving key insights and feedback in project meetings, ensuring compatibility across devices and seamless back-end integration.	

PROJECT

AgentPals: Transforming Real Estate with AI-Driven Insights. Link
<ul style="list-style-type: none">Conceptualized and developed AgentPals, an innovative AI-powered platform that revolutionizes real estate transactions by automating and analyzing disclosure forms, drastically reducing manual errors and saving time for agents.Engineered the entire backend infrastructure from the ground up using FastAPI, Cohere, Qdrant, Supabase, and LangChain, and designed a responsive frontend with React.AWS-deployed application using NGINX for server management and tmux for session stability.Introduced a state-of-the-art Retrieval-Augmented Generation (RAG) chat feature, allowing users to interact intuitively with all documents related to a property, enabling smarter decision-making and enhanced client communication.Empowered real estate agents with advanced AI tools to manage property disclosures effortlessly, increasing their operational efficiency and ensuring compliance with regulations.

CERTIFICATION

- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional. [Link](#)
- Java Programming Masterclass updated to Java 17 on Udemy. [Link](#)