

# Tushar Ranjan

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## EDUCATION

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

## SKILLS

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

## WORK EXPERIENCE

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

## PROJECT

### Zest(Real-Time Chat Application)

- Developed a real-time chat application using React and Socket.IO, ensuring instant messaging and user interaction. [Link](#)
- Addressed challenges in real-time responsiveness and scalability through efficient websocket and state management techniques.

### Implementations of Vedic Mathematics Sutra(Android Application)

- Created an educational application for Vedic mathematics, integrating interactive tools and user-friendly design. [\(Paper\)](#)
- Overcame challenges in user engagement and content delivery, enhancing the learning experience.

### Language Detection

- Created an app for detecting and translating languages, enhancing real-time processing and accuracy.

## CERTIFICATION

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