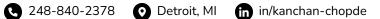
# Kanchan Chopde

kanchan.chopde@wayne.edu





github.com/KChopde

# PROFESSIONAL PROFILE

Software Engineer with 4+ years of experience in scalable full-stack development and cloud services. Eligible to work in the U.S. for up to 3 years under F1 OPT (STEM), no sponsorship required initially.

## EMPLOYMENT HISTORY

Research Assistant at Wayne State University, Detroit, MI

Present

Neural Conversational Agent for Weight Loss Counseling: Protocol for Implementation and Feasibility Study

- Assisted in code refactoring to improve modularity, readability, and performance of the neural conversational agent system.
- Supporting research tasks related to large language models (LLMs), particularly focusing on next-sequence generation and its alignment with weight loss counseling goals.

**Teaching Assistant** at Wayne State University, Detroit, MI

Aug 2024 - Apr 2025

• Conducted interactive lab sessions and mentored students by addressing challenges and enhancing their understanding of Python programming language.

Software Engineer at Cybage Software Pvt. Ltd., Pune, India

Mar 2019 - Feb 2023

- Maintained a web-based tool supporting 1M+ active users across 100+ countries, achieving 99.9% uptime.
- Collaborated with a team of 5 engineers across 5 product releases, increasing project performance by 35% via code optimization.
- Integrated Synopsys Polaris to resolve critical vulnerabilities reducing security risks by 30%.
- Implemented enterprise solutions using ASP.NET MVC, improving system scalability by 25% through asynchronous
- Mentored junior team members, reducing onboarding time by 60% through streamlined environment setup.
- Upgraded DLLs to SHA256-signed versions, enhancing system security and reliability.
- Developed audit reporting module with optimized MS SQL Server queries reducing report generation time from minutes to
- Streamlined installation processes for development and release kits by introducing better testing protocols and working closely with teams, cutting deployment errors by 30% and speeding up releases by 20%

## SKILLS

• Python, C#, .NET, ASP.NET

• Html, CSS, Javascript, ReactJs, NodeJs

• Git, Docker, Jira, Azure

MySQL Server, SQL

Agile, CI/CD Integration

• DynamoDB, MongoDB, Neo4J, Hbase

## **EDUCATION**

Masters in Computer Science

Apr 2025

Wayne State University, Detroit USA, CGPA: 3.90

**Bachelors in Computer Science** 

Aug 2018

Priyadarshini College of Engineering, Nagpur, India, CGPA: 9/10

PUBLICATION: "PCE College Enquiry Bot" International Journal of Innovations in Engineering and Science, Vol. 3, No.3, 2018

#### **PROJECTS**

## TrackLog-Healthcare Patient Management System

Jan 2025 – Apr 2025

- Developed a full-stack web application using Flask, MongoDB, and React for managing patient records
- **CRUD operations** for patient data.
- Integrated Aggregation pipeline in disease analytics for efficient data processing.
- Designed and deployed RESTful APIs to facilitate seamless frontend-backend communication.
- Optimized MongoDB queries to enhance performance and scalability.
- Deployed Frontend & Backend React frontend hosted via GitHub Pages, Flask backend deployed on Render.

## Crud Operations with DynamoDB and Python

Dec 2024 – Dec 2024

• Designed and implemented DynamoDB tables with Boto3 in Python, defining keys and indexes, and developed CRUD operations, successfully improving my understanding of NoSQL database design and AWS service integration.

## **Research Presentations**

Mar 2024 – Apr 2024

- Presented Google Spanner, highlighting its unique architecture, consistency model, & scalability features.
- Studied and Presented MapReduce paper, explaining its role in simplifying data processing over large clusters and enabling efficient big data operations.
- Reviewed research on a 3D stacked neural network accelerator designed to improve energy efficiency and speed for complex AR/VR models.

## Research on Mitigating DDoS Attacks

Feb 2024 – Feb 2024

• Outlined design principles for building resilient applications, including redundancy, load balancing, and modular services architecture with network segmentation.