

# Kanchan Chopde

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## 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 programming**.
  - 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 seconds**.
  - 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.