

Kanchan Chopde *Software Engineer*

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PROFESSIONAL PROFILE

Software Engineer with 4+ years of experience across the full SDLC, worked on full-stack projects involving backend APIs, frontend UIs, databases, and cloud deployment. Hands-on experience contributing to LLM-integrated features.

EMPLOYMENT HISTORY

Research Assistant at Wayne State University, Detroit, MI June 2025 - Present

- **Refactored** and **optimized** a full-stack AI counseling system (React + Flask) in an NIH-funded study with 40+ participants, improving modularity, performance, and scalability.
- **Integrated BM25** with FAISS vector search for hybrid retrieval, significantly improving context relevance and response accuracy in AI counseling sessions.
- Gained hands-on experience studying and analyzing a **full-stack LLM application built on Llama**, including its retrieval flow, inference pipeline, and deployment architecture.

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%**.
- **Mentored** junior team members, reducing onboarding time by 60% through **streamlined environment setup**.
- Upgraded DLLs to **SHA256-signed versions**, enhancing system **security and reliability**.
- Built the audit reporting module from scratch and **optimized MS SQL Server** queries to significantly improve report performance.
- **Added missing configuration** and validation steps to the **CI/CD pipeline** to automate installation checks.

SKILLS

- **Languages & Frameworks:** Python, C#, .NET, MVC, Flask, Reactjs, Node.js, JavaScript, HTML/CSS
- **Databases:** SQL Server, MongoDB, DynamoDB
- **Cloud & DevOps:** Azure, Docker, GitHub Actions, CI/CD, Jira, AWS, Kubernetes

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**

PROJECTS

TrackLog-Healthcare Patient Management System Jan 2025 – Apr 2025

- Developed secure **user authentication** (register/login) for controlled system access.
- Worked on **UI/UX** aspects, focusing on clean layout, workflow simplification, and user-friendly interactions.
- Implemented full **Patient CRUD operations** to manage records with demographics and medical history.
- Built a **MongoDB aggregation-powered analytics dashboard** for disease, gender, and age-group insights.
- Designed **dynamic backend routing** using Flask APIs integrated with MongoDB Atlas.
- Implemented **environment-aware configuration** to seamlessly switch between local development and production databases.
- Deployed the **React frontend on GitHub Pages** and **Flask backend on Render** for end-to-end availability.
- **Attempted deployment on AWS EC2**, gaining hands-on experience with server setup and networking, but moved to Render due to configuration issues.