Kanchan Chopde Software Engineer

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in https://www.linkedin.com/in/kanchan-chopde/

https://github.com/KChopde

PROFESSIONAL PROFILE

Software Engineer with 4+ years of experience in full-stack web development, cloud services (Azure, Docker, CI/CD), and AI/ML integration (LLMs, PyTorch, FAISS, BM25). Strong background in building scalable enterprise solutions and deploying distributed systems with high availability.

EMPLOYMENT HISTORY

Research Assistant at Wayne State University, Detroit, MI Neural Conversational Agent for Automated Weight Loss Counseling Present

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

Html, CSS, Javascript, ReactJs, NodeJs

Git, Docker, Jira, Azure, GitHub

• Databases: SQL Server, MongoDB, DynamoDB, Neo4J, HBase

• Cloud & DevOps: Azure, Docker, GitHub Actions, CI/CD, Jira

- Languages & Frameworks: Python, C#, .NET, ASP.NET ☑ MVC, Flask, React, Node.js, JavaScript, HTML/CSS
- AI/ML Tools: PyTorch, FAISS, BM25, LSTMs, Neural Conversational Agents

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.

Neural Conversational Agent for Automated Weight Loss Counseling

Jun 2025

- 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.

LSTM Text Generator (PyTorch, NLP Project)

Jul 2025

- Implemented a word-level LSTM model with embeddings, 2 stacked layers, and dropout, enabling accurate next-word prediction for text generation.
- Achieved >90% training accuracy within 50 epochs, demonstrating strong model convergence and learning efficiency.
- Developed a text generation pipeline capable of producing coherent narrative and poetic outputs from custom seed phrases.