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.