

Aman Dhakad

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EDUCATION

Master of Science, Information Technology and Management

Jan 2023 - Dec 2024

Illinois Institute of Technology, GPA 3.8/4

Chicago, IL

Relevant Coursework: Web Development, Machine Learning, DBMS, Database Security, Data Warehousing, Project Management.

Bachelor of Technology, Computer Science and Engineering

May 2018 - Jun 2022

Rajiv Gandhi Proudlyogiki Vishwavidyalaya

Indore, India

PROFESSIONAL EXPERIENCE

HieCOR Software Technologies

Jan 2022 - Nov 2022

Software Engineer (Mid-Level).

Remote

- Improved message processing efficiency by 30% by tuning ActiveMQ brokers and optimizing asynchronous communication patterns in a distributed microservices environment.
- Enhanced user experience and reduced page load times by 25% by restructuring React and Angular front-end architecture using modular design and Webpack optimizations.
- Increased deployment reliability to 99% by automating CI/CD pipelines with Jenkins and integrating comprehensive end-to-end testing using Cypress and Jest.
- Reduced API response times by 40% by refactoring Java Spring Boot microservices and optimizing complex SQL queries and stored procedures on SQL Server.
- Improved system scalability and uptime by architecting application deployments on AWS (EC2, S3, VPC, Auto Scaling), enabling seamless scaling for high-traffic workloads.
- Ensured robust integrations and service reliability by designing and executing API test scripts with Karate, achieving 100% test coverage for critical endpoints.
- Streamlined cross-team collaboration and code quality by leading code reviews and implementing best practices, resulting in a 20% decrease in post-release defects.

Pep Coding Education

Jul 2021 - Dec 2021

Software Engineering intern

Remote

- Developed and maintained features for web applications using JavaScript and React, contributing to improved user experience and interface responsiveness.
- Collaborated with senior engineers to fix bugs and implement enhancements, gaining hands-on experience with agile development cycles and code reviews.
- Participated in daily standups and sprint planning, improving my understanding of the software development lifecycle and teamwork in a remote setting.
- Wrote and optimized SQL queries to support backend data operations, ensuring efficient data retrieval for application features.
- Assisted in the creation of automated test scripts, which helped reduce manual testing time and improved overall software reliability.

PROJECTS

ASL Prediction using Vanilla CNN 5 Layered Architecture | [Link](#)

- Deployed a CNN model using Flask for predicting American Sign Language with 85% accuracy, utilizing Pandas, NumPy, TensorFlow, and Flask

Assistive Vision | [Link](#)

- Developed "Assistive Vision" for visually impaired users, providing real-time object descriptions and auditory feedback via webcam.
- Utilized BLIP for image captioning, OpenCV for video capture, and pyttsx3 for text-to-speech, creating an accessible solution to enhance environmental awareness.

Sentiment Analysis for U.S. Election Prediction

- Conducted sentiment analysis on 100,000+ election-related tweets using NLP, achieving 75% accuracy in classifying voter sentiment and predicting election trends.
- Performed data preprocessing, exploratory analysis, and sentiment classification, providing valuable insights into voter sentiment.

SKILLS

- **Programming Languages:** HTML, CSS, JavaScript, MySQL, PL/SQL, Python, Java, shell Scripting, C++
- **Framework & Libraries:** Node.js, Django, Flask, Express.js, React.js, .NET, OpenCV, Pandas, NumPy, scikit-learn, TensorFlow
- **Database Technology:** MySQL, PostgreSQL, MongoDB, DynamoDB, Apache Spark
- **Machine Learning:** Machine Learning Algorithm, Reinforcement, Neural Networks, AI-powered solutions, NLP
- **DevOps and Cloud:** CI/CD, Docker, Git, Jira, Agile, MLflow, AWS (EC2, S3, RDS, ECS)
- **Software Development and Design:** Software Systems Design, Full Stack Development, Cross Domain Knowledge.

ACHIEVEMENTS AND CERTIFICATION

- Ranked 6th in Data Structure and Algorithm and 4-star coder status on Code chef | [Link](#)