

DIKSHA SINGH

Bloomington, Indiana (Open to Relocation)

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PROFESSIONAL SUMMARY

A Computer Science graduate student keen to apply expertise in Software Development and Engineering, with a strong interest in integrating AI and ML solutions. Seeking full-time roles from May'24, open to relocation.

EDUCATION

Indiana University (IU)

Master of Science - Computer Science (GPA: 3.9/4)

Aug 2022 – May 2024

Bloomington, Indiana

Vellore Institute of Technology (VIT)

Bachelor of Technology - Computer Science and Engineering (GPA: 8.92/10)

Jul 2015 – Apr 2019

Vellore, India

TECHNICAL SKILLS & CERTIFICATIONS

Certifications: AWS Cloud Practitioner Essentials (Coursera), Micro-Certification - Welcome to ServiceNow

Languages: Java, Python, SQL, JavaScript, Groovy, HTML, CSS, Node.js, Express.js, React, Bash, XSLT

Technologies/Frameworks: AWS, Microsoft Azure, Docker, Jenkins, Git, GitHub, Jira, PostgreSQL, MongoDB, MySQL, Microservices, SAP Cloud Integration (SCI), SAP SuccessFactors

Coursework: Applied Algorithms, Software Engineering, Applied Machine Learning, Advanced Database Concepts, Computer Networks, Operating Systems, Database Design, Data Structure and Algorithms, OOPS, Artificial Intelligence

WORK EXPERIENCE

Indiana University

Associate Instructor

Aug 2023 – Present

Bloomington, Indiana

- Facilitated engaging sessions for a cohort of 54+ students in mastering OOPs concepts, Python, and data-structures, while also providing comprehensive support through office hours, grading, and preparing teaching materials.

Brainovision Solutions Pvt Ltd

Software Developer Intern

Jun 2023 – Aug 2023

Hyderabad, India

- Leveraged AWS services (EC2, S3, Lambda, VPC) for scalability boosting and hosting cost reduction.
- Created Jenkins CI/CD pipelines, resulting in 40% faster deployments and a 20% reduction in production defects.

Deloitte

Consultant (Integration Developer)

Aug 2019 – Jul 2022

Bengaluru, India

- Developed and delivered 7+ data integrations between SAP SuccessFactors and other applications/systems using SCI, achieving a 40% reduction in manual data entry and 25% higher process automation.
- Achieved a 25% improvement in data processing performance by optimizing groovy scripts and XSLT mappings, ensuring faster data transformation and efficient handling of incoming API requests.
- Successfully migrated on-premises solutions to SCI, improving scalability and cutting downtime by 30%
- Developed and standardized data integrations from different Deloitte projects for the 'SAP Cloud Integrations Factory' repository, reducing future project development effort by up to 40%.

PROJECTS

Covid-19 Vaccination Analysis | MySQL, Python 🐍

Aug 2023 – Dec 2023

- Built Python scripts to preprocess and analyze over 48,000+ real-world COVID-19 vaccination records from Washington and California states, utilizing MySQL Workbench for efficient data storage and management.
- Crafted a streamlined, normalized SQL database architecture, resulting in a 30% improvement in query performance.
- Conducted detailed analysis of vaccination patterns and booster dose effects, maintaining 99.9% data integrity.

Booking Management System | MERN, MongoDB, React, NodeJS, Express 🐍

Jan 2023 – May 2023

- Developed a user-centric UI/UX-focused web application for movie ticket booking with Agile methods, integrating search, bookings, Stripe payments, and chat support, all hosted on AWS for robust performance.
- Implemented backend APIs to perform CRUD operations on database, reducing data processing time by 10%.

GraphMaze - Parallel Graph Algorithms Library | Python, C++, CUDA, GPU 🐍

Jan 2023 – May 2023

- Built a high performance Python library utilizing CUDA programming to implement the 'Kmeans' algorithm, achieving upto **30x faster data clustering speed** compared to conventional algorithm.
- Constructed the Python frontend to facilitate the execution of CUDA backend kernel in C++ for parallelization.

Driver Insurance Claim Prediction | Python, Machine Learning (ML) 🐍

Sep 2022 – Dec 2022

- Designed and assessed 9 ML models (scikit-learn, TensorFlow) to predict recurrence of driver insurance claim, achieving **96.9%** accuracy with AdaBoost combining Random Forest.

ACHIEVEMENTS & EXTRACURRICULAR

- Grace Hopper Celebration'23 (GH23) Student Scholarship recipient, dedicated to advancing women in tech.
- Jan 2022 Spot Award recipient for successfully delivering 5 high-quality data integrations in 4 sprints.
- Coordinated Deloitte's 'Integration Lead Development Program', training professionals to lead future client projects.