

DIKSHA SINGH

Bloomington, Indiana (Open to Relocation)

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Github

Portfolio

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

WORK EXPERIENCE

Brainovision Solutions Pvt Ltd

Software Developer Intern

Jun 2023 – Aug 2023

Hyderabad, India

- Addressed customer scalability challenges and reduced hosting costs by 20% through strategic deployment of AWS services (EC2, S3, Lambda, VPC), enhancing operational efficiency and scalability.
- 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%.

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.

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, Netlify, 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

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 an open-source U.S. dataset, focusing on enhancing public health strategies in California and Washington.
- Crafted a streamlined, normalized SQL database architecture using MySQL Workbench, achieving a 30% improvement in query performance and maintaining 99.9% data integrity for robust analysis.

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.

Pizza Website | HTML, CSS, JavaScript, PHP, MySQL

Sep 2018 – Nov 2018

- Orchestrated a team of 3 developers in creating a fully functional pizza ordering website, enabling user registration, login, navigation, and customized pizza ordering for enhanced user experiences.

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.