Sahil Varma

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Leetcode • Portfolio Website

KEY QUALIFICATIONS

- Results-driven Computer Science graduate skilled in Java, Python, C++, and SQL with experience in building scalable software solutions.
- Proficient in cloud technologies, database management, and full-stack development, with expertise in optimizing performance of software systems and machine learning models.
- Passionate about solving complex problems, leveraging innovative technologies, and contributing to impactful, team-oriented projects.

EDUCATION

University of Georgia, Franklin College of Arts & Sciences | MS in CS | Athens, GA | May 2025
- GPA: 3.89/4.00
- Completed coursework in advanced topics such as algorithms, operating systems, distributed systems, computer vision, database management, and machine learning.

Medi-Caps University, School of Engineering | BTech in CS | Indore, India | May 2023
- GPA: 3.64/4.00

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Java, Python, JavaScript, SQL
- **Operating Systems**: Windows 10, macOS, Linux
- **Database**: MySQL, PostgreSQL, NoSQL: MongoDB, DynamoDB
- **Software**: Visual Studio Code, IntelliJ IDEA, MS Office
- **Framework**: ReactJS, NodeJS, Boot Strap
- **Cloud**: AWS
- **Problem Solving**: LeetCode, GeeksforGeeks

PROJECT EXPERIENCE

Deep Learning Model Optimization
Tech used: PyTorch, NumPy, YAML
- Designed and implemented pruning techniques to optimize convolutional neural networks by up to 80% while maintaining high accuracy for improved efficiency and performance.
- Conducted fine-tuning and retraining to minimize performance degradation, ensuring efficient and effective model optimization.
- Visualized pruning outcomes and analyzed metrics to validate improved model efficiency without compromising accuracy.

Multithreaded FTP Client and Server
Tech used: Java, Multithreading, Socket Programming
- Developed a multithreaded FTP client and server supporting commands like get, put, delete, and terminate for managing file transfers and directories.
- Implemented multi-port handling and thread-safe mechanisms to ensure concurrency and data consistency across multiple clients.
- Enhanced client functionality to execute commands in parallel threads, enabling efficient multitasking.

Face Recognition based Attendance System
Tech used: Python, OpenCV
- System recognizes faces from already maintained database and marks attendance in csv format.
- Feature to feed data for new person.

CERTIFICATIONS

The Complete JavaScript Course 2021   Udemy 2021
- 60 Hours course
- JavaScript Fundamentals, Modern ES6+, modern OOP
- Asynchronous JS, AJAX calls, API development

NodeJS – The Complete Guide   Udemy 2021
- 40 Hours course
- Learnt Web Development with NodeJS, integration with Databases, REST APIs
- Backend and frontend integration with JSON

HONORS & INVOLVEMENT

- MP Chief Minister State Meritorious Student Scholarship, during Undergraduate studies 2019 -2023