Varshini Golla

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EDUCATION

State University Of New York At Buffalo, Buffalo, NY

Aug 2023 - Dec 2024

Master of Science in Computer And Information Science

Coursework: DataBase Management Systems(Capstone), Analysis Of Algorithms, Operating Systems, Data Intensive Computing.

Sathyabama University, Chennai, India

Jun 2019 - May 2023

Bachelor of Science in Computer Science and Engineering

Coursework: Web Development, Data Structures, Object Oriented Analysis, Cloud Computing, Code-Optimization And Debugging.

SKILLS

Programming Languages: Java, Python, PHP, SpringBoot

Web Development: HTML, CSS, JavaScript, Bootstrap, Node.js, Angular JS

Database & Cloud: MySQL, MongoDB, SQL Server, NoSQL, AWS

Hardware & Software: Git, Selenium, PowerBI, Pycharm, Visual Studio, Intellij, Linux, GDB

PROFESSIONAL EXPERIENCE

GoAudits Private Limited | Bangalore, India

Software Developer Intern

Apr 2022 - Mar 2023

- Worked on building an e-commerce platform to allow inventory updates and purchasing abilities for users, in which we used technologies like **ReactJS**, **MVC** frameworks, **Selenium**.
- Developed and maintained web applications using **Java, Javascript** and React, resulting in a 20% increase in website traffic and improved user experience.
- Collaborated closely with a cross-functional team of designers, front-end developers, and QA engineers to conceptualize and implement the platform's user interface using React JS. This resulted in an intuitive and visually appealing user experience.
- Implemented the **Model-View-Controller (MVC) architectural pattern**, ensuring modular and maintainable code. This approach streamlined development and reduced the time required for feature additions and updates.
- Designed and executed end-to-end testing strategies using **Selenium** automating the testing process and reducing manual testing efforts by 30%. This led to higher product quality and faster release cycles.
- Extensive Hands-on in Git.

HCL Technologies | Chennai, India

Machine Learning Intern

Jan 2022 - May 2022

- Improved prediction accuracy by 35% through the development of advanced machine learning utilizing **Random Forest analysis**, after analyzing more than 100,000 records using **Numpy and Pandas**.
- Reduced false positive rates by 20% by implementing sophisticated data preprocessing and augmentation methods.
- Enhanced user experience by 40% by deploying the model as an interactive application with a dynamic front end built with **HTML and CSS**, launched in **Heroku**, and created dashboards and reports using **PowerBI**.
- Delivered the project in an **Agile environment**, collaborating with cross-functional teams through iterative sprints, ensuring continuous feedback and improvement.

ACADEMIC EXPERIENCE / PROJECTS

Relational Database Engine (Taco-DB) | C++, gdb, linux

- Developed core features including join algorithms, aggregations, caching, and B-tree indexing. Implemented storage management, query processing, and optimization in a large-scale RDBMS.
- Ensured system correctness by testing against **200+ test cases** using **Google Test**. Contributed to building a high-performance, reliable database engine.

Smart CCTV Surveillance System

- Developed a Smart CCTV from scratch using python and advance image processing techniques, including **OpenCV** and **Numpy** to enhance security through real time object detection and face recognition
- Engineered a wireless-enabled IP camera system for theft detection, zone monitoring, and intrusion recording, utilizing LBPH for face recognition, Gaussian Mixture Models (GMM) for adaptive background subtraction, and Structural Similarity Index (SSIM) for image comparison, with a Stream lit interface for user interaction in Python.

Blogging Platform with User Authentication

- Developed a blogging platform with user authentication using JWT, allowing users to create, edit, and delete posts. Integrated features like tagging, categories, comments, and liking posts for enhanced interaction.
- Built with a **ReactJS** frontend, **Node.is** backend, and **MongoDB** database.

PUBLICATIONS & CERTIFICATIONS

- Smart CCTV Surveillance System: fin irjmets1679739909.pdf International Research Journal (2023)
- Google Python Crash Course Certification.