Shubh Srivastava

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EDUCATION

Mahindra University, B.Tech CSE   August 2021 - July 2025
Hyderabad, India

DPS - Modern Indian School   April 2013 - March 2020
Doha, Qatar

COURSEWORK:

Object-Oriented Programming, Data Structures & Algorithms, Discrete Math, Database Management Systems, Operating Systems

SKILLS

Programming Languages: Java, Python, C/C++, HTML, CSS, SQL (MySQL, PostgreSQL)
Testing Tools: JUnit, Mutation Testing (Pitest)
Build & Automation Tools: Maven, Git, Python Poetry, CircleCI, Jenkins, Shell Scripts
Frameworks & Libraries: Express.js, Flask, Bootstrap, Chart.js, Sequelize ORM, SQLAlchemy ORM
Technologies & Platforms: Docker, AWS, Linux
Additional Skills: System Design, Software Architecture

EXPERIENCE

Smart India Hackathon 2022   August 2022
- Created a website to showcase job and admission trends globally.
- Developed prediction models and visualized data with scatter plots to forecast trends through 2031.
- Data visualization carried out through Chart.js library and core backend and APIs written in Flask

OpenHack 2022   October 2022
- Wrote mutation tests using Pitest Java library.
- Carried out extensive documentation updates for various modules within the codebase.

418 Hackathon   February 2023
- Created a website that provides custom tour plans with integrated ChatGPT feature. ChatGPT turbo 3.5 API used as LLM.
- Utilized Leaflet.js as a mapping service to enhance user experience in creating detailed tour plans.

PROJECTS

Decentralized File Storage System   August 2024 – Present
- Developing Decentralized File Storage using a peer-to-peer (P2P) network for enhanced security and availability.
- Implementing file chunking, encryption, and metadata management for data integrity and privacy.
- Integrating IPFS for efficient file retrieval and designing redundancy mechanisms to ensure access during node failures.

Store Management Website   November 2023
- Architected a full-stack store management web app using Python Flask and Bootstrap, featuring user authentication and a dynamic UI.
- Implemented data visualization with Chart.js to enhance reporting and analysis capabilities.

Skill Barter Website   November 2023
- Developed a skill barter web app with user authentication, real-time chat using Socket.io, and PostgreSQL database integration.
- Implemented frontend features with HTML, CSS (Bootstrap), and JavaScript, and managed backend in Express.js.

OPEN SOURCE CONTRIBUTIONS

Checkstyle

Merged pull requests include mutation tests, JUnit tests, shell script updates, bug fixes, documentation updates, legacy testcase migration.

AWARDS & ACHIEVEMENTS

Smart India Hackathon - AICTE (Winner) August 2022

Led a team to develop a product for colleges and universities to forecast admission and job trends in the field of medical science, management and engineering through 2031.

OpenHack Hackathon - Devexperts (Top Team) October 2022

Contributed to the checkstyle repository in GitHub as a part of the hackathon. Merged pull requests include documentation updates and mutation tests.

418 Hackathon - Mahindra University (Winner) February 2023

Created a website that provides custom tour plans with integrated ChatGPT feature. Utilized Leaflet.js for mapping services to enhance user experience in creating detailed tour plans.

Fetch.ai Hackathon - Decodecafe December 2023

Developed a GUI-based Python app for real-time currency rate monitoring, boosting financial analytics. Implemented a fetch uAgent to autonomously track rates, enhancing data accuracy and efficiency.