

Harshvardhan Mhetre

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Passionate Computer Engineering Student | Web | Quantitative Analysis | Python | Problem-Solver

I'm a dedicated student with a passion for software development. With a solid foundation in quantitative analysis, web development, Python, and database management, I am eager to contribute my skills to a dynamic organization.

Experience

Software Developer | Launched:

July 2023 – Sept 2023

- Developed and maintained dynamic web applications using React.js for the front end and Node.js with Express for the back end, resulting in the launch of two high-traffic customer-facing applications, improving user engagement by 30%.
- Built and consumed RESTful APIs, streamlining communication between front-end and back-end, leading to a 25% reduction in API response times.
- Wrote unit tests using Jest and React Testing Library for front-end components achieving 80% code coverage and reducing post-deployment bugs by 25%.
- Designed and implemented MongoDB database models and schemas using Mongoose, optimizing data storage and access for high-traffic applications, leading to a 30% reduction in query latency and 20% faster data retrieval.
- Optimized front-end performance by implementing lazy loading, code-splitting, and caching mechanisms, improving page load speeds by 40%.
- Integrated third-party APIs, including payment gateways and real-time data providers, ensuring seamless and secure data processing.
- Established a CI/CD pipeline using GitHub Actions, automating testing, integration, and deployment to reduce delivery timelines by 50%.
- Implemented authentication and authorization with JWT and OAuth, ensuring secure access and user management.

Education

Sinhgad Academy of Engineering

2020 - 2024

B.E. - Computer Science & Engineering (GPA: 7.75 / 10.0)

Selected coursework: Data Structures and Algorithms, OOP, Discrete Mathematics, DBMS, Data Science and Big Data Analytics, Web Technology, Theory of Computation, Network Security, Artificial Intelligence, OS

Projects

Real-time Stock Screener and Scanner (Python)

2023

- Developed a Python-based application to retrieve real-time stock data from financial APIs and perform filtering and screening based on user-defined criteria.
- Implemented algorithms to identify stocks meeting specific technical and fundamental parameters, including moving average crossovers, RSI levels and P/E ratios.
- Used Python to visualize stock price movements and generate trading signals in real time.

Movie Recommendation System (Python, AWS S3, EC2, Lambda)

2022

- Created a movie recommendation system that recommends movies with an accuracy of 70%.
- It combines collaborative and content-based filtering for recommending movies to users.
- The dataset contains 100K ratings and 1,300 tag applications applied to 9,000 movies by 700 users.

Extra Curricular

SAHAYATA Shubh-Hith Foundation (NGO) | Member & Board of Director

2021 - Present

- Led and supported initiatives, including tutoring underprivileged students, organizing blood donation camps, distributing meals to the needy, planting trees, coordinating drives, and raising awareness for social and environmental causes.

Skills & Achievements

- **Languages:** Python, C, C++, Java, JavaScript, SQL, HTML 5, CSS 3, PowerShell