Ayush Uday Desai

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EDUCATION

Northeastern University, Boston, Massachusetts   December 2024
Master of Science, Computer Science
- GPA: 3.81 / 4.0

University of Mumbai, Mumbai, India   May 2022
Bachelor of Engineering, Information Technology
- GPA: 9.1 / 10

SKILLS

- Programming Languages: Python, Java, JavaScript, C, C++.
- Database: MySQL, MongoDB, PostgreSQL, Cassandra.
- CI/CD: Jenkins, Git, Bitbucket.
- Tools: Apache Spark, Kafka, Microsoft SQL server, Iceberg, AWS Cloud, JUnit, Kubernetes, Terraform.
- Libraries: React, Flask, Django, Numpy, Streamlit, TensorFlow, PyTorch, Nltk, Scikit-Learn.
- Soft Skills: Attentive, Collaborative, Composed, Analytical, Efficient.
- Research Paper: Game Engine Architecture and Comparative Study of Different Game Engines. [Link]

WORK EXPERIENCE

Papa Don't Preach by Shubhika, Mumbai, Maharashtra   January 2022 - Dec 2022
Full Stack Engineer
- Pioneered the creation of scalable, end-to-end web application for the fashion giant, blending the elegance of React with the power of Node.js to deliver seamless user experiences across multiple platforms.
- Engineered an intelligent backend infrastructure using MongoDB and PostgreSQL, optimizing database performance and enabling lightning-fast data retrieval for real-time inventory management.
- Collaborated with multi-functional teams to drive data-driven innovation, aligning technical solutions with company's privacy policy to foster secure, user-friendly experiences.

PROJECTS

Project Nebula, *Full Stack Application*   January 2021 - May 2022
- Developed a collaborative, real-time coding platform using React and WebSockets, enabling seamless code-sharing and live collaboration for distributed teams.
- Integrated Node.js and Express for backend services, ensuring reliable performance and secure communication across users.
- Synchronized database interactions with MongoDB, achieving efficient data storage and retrieval for project management and code versioning.

InsightTrack, *Full Stack / Data Visualization Application*   January 2021 - Dec 2021
- Designed a dynamic, real-time dashboard using Vue.js and D3.js, enabling users to visualize key performance metrics across various datasets.
- Implemented a Flask backend, connecting to PostgreSQL to ensure accurate data processing and secure storage of user-generated reports.
- Enhanced data visualization with interactive charts and graphs, allowing users to gain deep insights from their data in an intuitive interface.

ImageWizard, *Java Application* [Link]   September 2023 - Dec 2023
- Architected a real-time image editing tool using Java, enabling users to apply filters and adjustments with minimal processing delay.
- Directed an intuitive, user-friendly interface using Java Swing, enabling smooth and efficient user interactions across a wide range of editing functions.
- Applied JUnit testing across all modules, ensuring 100% functionality and reliability, while maintaining scalability through the MVC architecture.

EXTRA CURRICULARS

- Lead Teaching assistant for the course CS5200 (Database Management Systems).
- Represented my college at the Smart India Hackathon (SIH), contributing innovative solutions to real-world industry challenges in a national-level competition.
- Volunteered as a tech mentor for underprivileged high school students.