

Shivali Shrivastava

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Education

University of Massachusetts, Amherst (Amherst, MA)

Sep 2020 - May 2024

- **B.S. in Computer Science, Dean's list**
 - **Coursework:** Data Structures, Programming Methodology, Artificial Intelligence, Discrete Math, Computer Systems Principles, Algorithms, Search Engines, Software Engineering, Human Computer Interaction, Web Programming, Computer Networks, Software Engineering Project Management, Databases, Operating Systems.
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Work Experience

Project Manager for Software Engineering course

Sep 2023 -

- Selected to be a project manager for CS320 Software Engineering course managing 9 student developers in a full stack document management application for ISO New England.
- Conducting weekly sprints and advising the development process through Trello including choosing stack, design requirements, managing progress of frontend, backend, and database teams.
- Managing code repository by approving pull requests and settling merge conflicts from integration.

Software Engineer Intern at Oracle

Jun 2023 - Sep 2023

- Developed a customer-facing interface for the Geo-location loading services as a part of the Oracle Advanced Authentication product to configure custom IP location data from any provider in Java, Maven.
- Reconfigured existing providers Neustar and Quova to implement the interface.
- Ran test on Neustar which successfully loaded 340 million rows of IP Location data into the database.
- Wrote java documentation and accompanying developer's guide to implement newly created interface for project handoff.

Software Developer at BUILD Umass (Technology Consulting club)

Oct 2022 -

- Rebuilding a dynamic website for Umass Indian Student Association with embedded calendar and event registration features using MERN stack technologies and Figma mockup with a group of 5 software developers.

Labview Software Intern at Vertilon Corporation (Scientific Instruments Company)

May 2020 - Sep 2021

- Created and tested automatic data acquisition feature which logs high amounts of photonic data for a custom product - Runs for over 72 hours and populates up to 10,000 files.
 - Implemented algorithm for upcoming software system which rapidly visualizes 4,000 photons per second by position, relative intensity, and intensity over time.
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Projects

'Mixed Sounds' Music Discovery App in HTML, JS, CSS, Express, Nodejs, Spotify API, MongoDB, Atlas, Passport, Postman ([Source Code](#))

- Developed a random song generator full-stack application using Spotify API for song selection with playlist and listening history.
- Designed and implemented Song randomizer, listening history, and playlist pages using HTML, JS, CSS.
- Created Express server and implemented REST API for retrieving/adding user data from database and song data from Spotify API.
- Tested endpoints using Postman and integrated passport library for user authentication.

'Danity' Data Analytics Tool for ISO New England in Figma, MongoDB, Express, React, Nodejs, Prisma.io, ApexChart.js ([Source Code](#))

- Collaboratively built a full-stack application using Agile methodologies to visualize ISO New England's electricity market prices.
 - Created filtering criteria with search functionality based on date, LMP node, and region.
 - Produced table with sorting features to output statistics such as mean, median, mode for LMP data.
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Technical Skills

- Languages: Java, C/C++, Python, HTML, CSS, Javascript, Labview, PostgreSQL.
 - Tools: Figma, Git, React, Express, Nodejs, MongoDB, Atlas, Prisma.io, Postman, Passport, RESTful APIs, Maven, Unix/Linux.
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Extracurriculars

- Undergraduate Course Assistant for CS210 Data Structures Course and CS320 Software Engineering.
- Tutor for CS187 Data Structures and Algorithms and CS220 Programming Methodology.