Shivali Shrivastava

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Education

University of Massachusetts Amherst   Amherst, MA
Bachelors of Science in Computer Science, GPA 3.58 Dean's list all semesters   Candidate, May 2024
- **Coursework**: Data Structures, Programming Methodology, Artificial Intelligence, Computer Systems Principles, Discrete Math, Algorithms, Search Engines, Software Engineering, Human Computer Interaction, Web Programming, Computer Networks, Databases, Operating Systems, Software Engineering Project Management.
- **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.

Work Experience

Project Manager for Software Engineering course   Sep 2023 - present
- Manage 9 developers in a full stack document management application for ISO New England in React, SpringBoot, Microsoft SQL.
- Conduct weekly Scrums and advise the development process through Trello by delegating tasks, managing integration of frontend and backend teams, and tracking progress towards weekly actionable goals.
- Regulate code repository by approving pull requests, settling merge conflicts, and reviewing code changes.

Oracle   Jun 2023 - Sep 2023
Software Engineer Intern   *Santa Clara, CA*
- Designed and integrated an API for the Geo-location loading services as a part of the Oracle Advanced Authentication product to configure custom IP location data for risk analysis from any provider in Java, Maven.
- Reconfigured existing providers to implement the interface in order to provide dependency injection.
- Ran load test on provider class which successfully loaded 340 million rows of IP data 2 hours faster than previous implementation.

Vertilon Corporation (Scientific Instruments Company)   May 2020 - Sep 2021
Labview Software Intern   *Westford, MA*
- 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.

Projects

'Mixed Sounds' Music Discovery App in HTML, JS, CSS, Express, Nodejs, Spotify API, MongoDB, Atlas, Passport, Postman
- Developed a random song generator full-stack application using Spotify API for song selection with playlist and listening history.
- Implemented UI of 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
- 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.
- Engineered table with sorting features to output up to 25 pages of statistics such as mean, median, mode for LMP data.

Extracurriculars

- Undergraduate Course Assistant for CS210 Data Structures Course and CS320 Software Engineering.
- Tutor for CS187 Data Structures and Algorithms and CS220 Programming Methodology.
- Software Developer for BUILD Umass, pro-bono technology consulting club.