

Shivali Shrivastava

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Education

University of Massachusetts Amherst (Amherst, MA)

9/20 - 5/24

Expected graduation May 2024

- **B.S. in Computer Science, Dean's list**
- **Coursework:** Data Structures, Programming Methodology, Artificial Intelligence, Intro to Computation, Computer Systems Principles, Intro to Algorithms, Search Engines, Intro to Software Engineering, Web Programming, Computer Networks, Human Computer Interaction.
- **Skills/Languages:** Java, C/C++, Python, HTML, CSS, Javascript, Linux, Agile, Scrum.
- **Tools:** Figma, Git, React, Express, Nodejs, MongoDB, Atlas, Prisma.io, Oracle Cloud, CUDA, Postman, REST API.

Work Experience

Software Developer at BUILD Umass

10/22 -

Pro-bono technology consulting club in Amherst, MA

- Rebuilding a comprehensive 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.

Software Engineer Intern at QRyde

7/22 - 9/22

Cloud based transportation management software company in Lowell, MA

- Utilized CUDA, TensorRT, and cuBlas libraries in C++ to create a multi GPU cloud application with virtual memory support to parallelize and accelerate computational updates on ride request management services.

5/20 - 9/21

Labview Software Intern at Vertilon Corporation

Scientific instruments company in Westford, MA

- Developed and tested automatic data acquisition system 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 Service in HTML, JS, CSS, Express, Nodejs, Spotify API, MongoDB, Atlas, Postman

2/23 - 5/23

- Developed a random song generator full-stack application with user authentication using HTML, JS, CSS for client, Express, Nodejs, Spotify API, and Passport for server, and MongoDB hosted on Atlas for the backend.
- Source code: github.com/shivalish/MixedSounds

'Danity' Data Analytics Tool for ISO New England in Figma, MongoDB, Express, React, Nodejs, Prisma.io

9/22 - 12/22

- Collaboratively developed a full-stack application using Scrum and Agile methodologies to visualize ISO New England's electricity market prices with Figma mockup, MongoDB, Express server, Prisma.io database abstraction, REST API, and client written in React and ApexChart.js.
- Source code: github.com/NewViewDev/320-TimeSeries-Visualization

Extracurriculars

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