Shivali Shrivastava

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Education

9/20 - 5/24

University of Massachusetts Amherst (Amherst, MA)

Expected graduation May 2024

- **B.S. in Computer Science, Dean's list**
- **Coursework:** Data Structures and Algorithms (Java), Programming Methodology (Javascript), Artificial Intelligence (Python), Introduction to Computation, Calculus, Linear Algebra.
- **Languages:** Java, C/C++, Python, HTML, CSS, Javascript, NI Labview.
- **Tools:** PyTorch, TensorFlow, Scikit Learn, CUDA, TensorRT, cuBlas Oracle Cloud, Git, Groovy, Docker, Kubernetes.

Work Experience

Part-time Back End Software Engineer at QRyde by HBSS **7/4 -**

Cloud based transportation management software company in Lowell, MA

- Utilizing 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.

Labview Software Intern at Vertilon Corporation **5/20 - 9/21**

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

Portfolio website in HTML, Javascript, CSS **8/22 -**

- Source code: github.com/shivalish/portfolio

Spinnaker in Java, Groovy, Docker, Kubernetes, Object Storage **5/22 -**

Open source multi-cloud CI/CD platform by Netflix

- Added headers to HTTP requests to track Spinnaker usage on OCI saving configuration into Object Storage.
- Fixed startup and initialization errors in OCI CloudDriver using incorrect compartment to access OCI Service APIs.
- Contributed to open source project: github.com/spinnaker

MathSpring Data Mining Application in Python **9/21 - 5/22**

Scholar in Early Research Scholars Program (ERSP)

- Developed unsupervised learning program with Scikit Learn to apply on teacher action and student data from MathSpring, an Intelligent Tutoring System website.
- Source code: github.com/PseudoAptGet/g6-ersp-

Leukemia Classification CNN in Python **9/19 - 9/19**

- Built a convolutional neural network in Python using PyTorch and TensorFlow which distinguishes between two types of leukemia based on gene expression with over 63% accuracy.
- Source code: github.com/shivalish/leukemia-classification

Leadership

Ambassador and Northeast Chapter Lead for AI4ALL **9/19 - 1/21**

Artificial Intelligence camp in Boston, MA

- Organized virtual AI workshops and speaker panels for 50+ camp alumni in the northeast region.