

# Shivali Shrivastava

Westford, MA | (978) 489-8053 | [shiv.shivalis@gmail.com](mailto:shiv.shivalis@gmail.com) | [linkedin.com/in/shivali-s](https://linkedin.com/in/shivali-s) | [github.com/shivalish](https://github.com/shivalish)

## 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, Programming Methodology, Artificial Intelligence, Intro to Computation, Computer Systems Principles, Intro to Algorithms, Search Engines, Intro to Software Engineering.
- **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

7/22 -

#### 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 -

- Created portfolio website hosted on github pages using HTML, CSS, JS at [shivalish.github.io](https://shivalish.github.io)

### 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](https://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-](https://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](https://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.