

# KIRAN JOSHI

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## EDUCATION

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**University of Massachusetts, Dartmouth**

*January 2020 - December 2021*

**Masters in Computer Science**

GPA: 3.550/4

Coursework: Algorithms, Software Engineering, Data mining and Machine learning, Operating Systems.

**University of Pune**

*August 2014 - August 2018*

**Bachelors in Computer Engineering**

First Class with Distinction

Coursework: Data Structures, Distributed Systems, Object Oriented Programming, Computer Graphics.

## TECHNICAL SKILLS

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**Languages**

Python, SQL, JavaScript, C/C++, Java (familiar)

**Technologies & Tools**

AWS, REST API, MySQL, Spark, Machine Learning, Git, Docker, JIRA, Google Colab, HTML, CSS, D3, XAMPP, PyCharm, Jupyter, Blender, DeckGL, keplerGL

## PROJECTS

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- **Machine Learning**

September 2020 - December 2020

1) Prediction Model for Covid-19 x-ray Images

2) Study: Hardware requirements and optimizations in autonomous cars

[Python, Convolutional Neural Networks, Machine learning, Instruction Set Architecture]

- **Data Visualization**

September 2020 - December 2020

1) Created interactive visualization of CO2 emission data by countries.

2) Contributed in a Team project with a interactive bar chart visualization using D3 javascript

[Python, HTML, D3, JS, CSS, AWS, keplerGL, DeckGL]

- **Distributed File System**

January 2020 - April 2020

Developed a remote file sharing system to perform multi-threaded CRUD operations using distributed producer-consumer architecture.

[Python, Socket programming, File I/O, OS]

- **Battlefield simulator using HPC**

August 2017 - December 2018

Developed a Battlefield simulator under CDAC institute for Military achieved an overall speed-up of 7x using high performance computing technologies.

[C++, Cuda, Nvidia GPU, Unity3D, Blender]

## EXPERIENCE

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- **Riskpro Ltd**

May 18 - June 18

**Software Engineering Intern**

Pune, India

Developed Smart Parking System's backend service for automated updating of persistence layer on entry and exit

- **Quick Heal Foundation**

February 18 - April 18

**Web Developer Intern**

Pune, India

Contributed in site development for cyber security awareness

## PAPER PUBLICATIONS

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**Battlefield Simulator using GPU**

December 2018

ACM's 5th International Conference on Bioinformatics Research and Applications

<https://dl.acm.org/doi/10.1145/3309129.3309131>