

Abdul Hannan Kanji

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Education

University of Massachusetts, Amherst

Master of Science, Computer Science

September 2019 – June 2021

Amherst, MA

- **Courses:** Machine Learning, Neural Networks, Systems for Data Science, Advanced NLP, Probabilistic Graphical Modeling.

PES Institute of Technology

Bachelor of Engineering, Computer Science

September 2011 – May 2015

Bengaluru, India

- **Courses:** Data Mining, Natural Language Processing, Cloud Computing and Big Data.

Technical Skills

- **Programming languages:** Python, C++, Java, Kotlin, JavaScript.
- **Tools:** PyTorch, Tensorflow/Keras, scikit-learn, Python Pandas, Android, Spark, Hadoop.

Experience

Reich Lab, UMass Amherst

Research Programmer

June 2020 – Present

Amherst, MA

- Manage **visualization, data validation and the build pipeline** for [COVID-19 forecast hub](#), the data source for the official [CDC COVID-19 Forecasting page](#).

Intuit Inc.

Software Development Engineer II

August 2015 – July 2019

Mountain View, CA/Bengaluru, India

- Developed a **"build once, deploy on all devices"** framework for mobile clients which is used by all product offerings across Intuit.
- Develop import of customer receipts data into **Quickbooks** and implemented **receipt validation and extraction** for Quickbooks.

EMC Corporation

Intern

June 2014 – August 2014

Bengaluru, India

- Developed a **Hybrid Cloud framework** between **VMware vCloud** and **OpenStack**.

Projects

Microsoft Fairlearn

January 2020 – Present

- Worked with Microsoft on the [fairlearn](#) repository.
- Implemented fairness constraints and made improvements to their **ExponentiatedGradient** algorithm. Currently running experiments with some enhancements on scalability of **ExponentiatedGradient** which we did.

Lightweight Layer normalization

October 2019 - December 2019

- Developed an alternative and lightweight way to perform **layer normalization** with **half the number of parameters** by just scaling and not shifting the input to a layer.

OpenStack Extension to Hybrid Cloud

February 2013 - February 2014

- Developed a **Hybrid Cloud framework** that extends the features of **OpenStack** to enable **cross-cloud federation**.
- Project selected to be presented at the **OpenStack Summit 2014** in Atlanta, GA.

Publications

Sitaram, D.; Phalachandra, H.L.; Harwalkar, S.; Murugesan, S.; Sudheendra, P.; Ananth, R.; Vidhisha, B.; **Kanji, A.H.**; Bhat, S.C.; Kruti, B., **"Simple Cloud Federation"** in Modelling Symposium (AMS), 2014 8th Asia, 23-25 Sept. 2014.

Volunteer Experience

Make A Difference (MAD)

July 2016 - March 2017

- MAD teaches **disadvantaged kids** in various shelter homes across India. Taught **Mathematics** to a **7th grade class** for 1 academic year.