Hammad Haleem

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Degree	University	Year and Grade
M.Phil. in Computer Science and Engineering	Hong Kong University of Science and Technology	2018
MSc. In Information Technology	Hong Kong University of Science and Technology	2015 (3.75/4.3)
B. Tech in Computer Engineering	Jamia Millia Islamia, New Delhi, India	2014 (9.36/10)

- Graduate researcher at Visual analytics and machine learning group at HKUST
- Teaching assistant for Introduction to computer science and VBA, for undergraduate students. (2016 & 2017)
- Recipient of Postgraduate student scholarship 200,000 HKD a year (2016 & 2017)
- Relevant coursework: Computational finance, Parallel programming, Data Mining, Databases, Block chain technologies & Computer Graphics.

WORK EXPERIENCE

Goldman Sachs
Institutional securities, Hong Kong
Quant Strategist   **08/2018 – Current**
- *Strategist in the securities lending / Prime brokerage business.*
- Work on Pricing models/Locate models, Inventory management strategies & P&L calculations for the business.
- Part of the Stock loan trading analytics team to help desk perform analysis and monitor inventory. (Slang, Python, SQL)

Morgan Stanley
Institutional securities, Hong Kong
Summer Analyst, Data & Technology   **06/2017 – 08/2017**
- Design and developed "Order Manager" monitoring system and a log parsing framework from scratch
- Enhanced core libraries of order manager to include advanced logging functionality and connection to a distributed messaging system.
- Implemented an "Order Manager" log parsing system using cluster computing techniques, to achieve faster processing of gigabytes of log files. (PostgreSQL, Spark, C++ & Python)

GoGoVan, *Largest Uber for vans startup in Asia, Hong Kong*
Analytics Scientist   **04/2016 – 09/2016**
- Work closely with management to prioritize business and information needs to build analytics systems.
- Interpret data, analyze results using statistical techniques to support various business functions.
- Develop analytics system and manage infrastructure (PostgreSQL, Spark, AWS & Python)

Thales Group, *Global Aerospace, Defense, Transportation and Security conglomerate (Fortune 500)*
Hong Kong
Research and Development Engineer   **05/2015 – 04/2016**
- Lead discussions with executives from MTR to identify big data requirements and implement a solution.
- Design & develop passenger movement and crowd analytics big data system for Hong Kong MTR.
- Simulate passenger flows using machine learning algorithms to identify critical links in the rail network.
- Analytics platform processes more than 10 million Octopus transactions daily. (Scala & Python)

Google, New Delhi India
Summer of Code Intern(GSOC)   **04/2014 – 08/2014**
- Architect and build virtual classroom platform for Fedora OS community.
- Product design was done with a strong focus on media delivery using screencasts and videos.
- Project accepted into the official Fedora Infrastructure repository for packaging. (Python/ Web)

LEADERSHIP ROLES

Vice President, Students Union
Jamia Millia Islamia, New Delhi   **07/2014 – 04/2015**
- Vice president of/for the university Student union with more than 20,000 students.

- Organized events over the year including a Mega Cultural Festival with more than 15,000 people in attendance.

Head Technical Affairs, Computer Society of India

Jamia Millia Islamia, New Delhi   **08/2014 – 03/2015**

- Organized multiple technical lectures, technology induction workshops for students and regional technology meetups throughout the year.
- Manage technology infrastructure for the society including Online Magazine, Website and Cloud Storage.

PROMINENT PUBLICATIONS

- CNN-Comparator: Comparative analytics of convolutional neural networks*, VADL, IEEE-vis, Phoenix.*
- Improving classification by outlier detection and removal, *Emerging ICT for Bridging the Future-Proceedings of the 49th Annual Convention of the Computer Society of India CSI Volume 2, India*
- Novel frequent sequential patterns based probabilistic model for effective classification of web documents *International conference on Computer and Communication Technology (ICCCT), IEEE, India,*

AWARDS AND PARTICIPATIONS

- Winner of the .Tech prize in the FinHack Hong Kong, 2017.
- Finalist out of 200 international teams in the Million Dollar Entrepreneurship competition at HKUST.
- First Runner Up in the HKUST mobile design competition.
- First prize at GSF hack India, one of the largest Hackathons in India. Participant and finalist of many Hackathons, including HackUST, Google Hack New Delhi, Facebook KRDS hack and PeerHack India.
- Core member of Venture Entrepreneurship network strong focus design thinking and entrepreneurship.

OTHER SKILLS

- **Technical:** C/C++, Python, VBA, Java, Scala, GIT, HTML, JavaScript, Spark, Hadoop, Machine learning, Data Mining, Amazon web services (AWS) & Linux.
- **Languages:** English, Hindi