Jay Lohokare

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Education

State University of New York	Stony brook	MS in Computer-Information science	2017 – June 2019
College of Engineering Pune	Pune	BTech in Computer Engineering	2013 – June 2017

Research

Initiated and led research at IoT Lab COEP; working on various aspects of Smart city wide IoT systems. Authored and presented 3 research papers at IEEE ICEI 2017 (Best paper award), one at IEEE TENSYMP 2017 and one at IEEE TENCON 2017. Currently working with Professor Fusheng Wang at Biomedical Big data analytics lab (Data analytics) and Professor Fan Ye (Machine Learning) at Stony Brook university.

Skills

Python, Scala, PHP, R, JAVA, MEAN stack (NodeJS, AngularJS), ReactJS, HTML-CSS, MongoDB, MySQL, Arduino, Intel Edison/RaspberryPi, C++, Spark, Spark Streaming, Kafka, Android-iOS development, J-Meter, MQTT, XMPP, Unity 3d, Git, Weka, TensorFlow, D3JS, Photoshop, OpenCV.

Work Experience

Founder, CEO and Chief software architect, Skyline Labs, Pune, India **2015 - 2017**

Founded and led a Tech-startup working on Smart city and IoT solutions. Formed a team of 15, won multiple awards and hackathons. Collaborated with various government and industry organizations in India to develop a varied range of products including an IoT platform, a smart city portal, various smartphone applications and ecommerce systems. Received 'Best startup award' at COEP Entrepreneurship fest and got inducted to Facebook's FBStart program. Estimate number of product users - 20, 00,000.

Research intern, NTT DATA headquarters, Tokyo, Japan **June 2016**

Worked in RND section of 'Macaseinou' - a performance engineering team at NTT DATA. Improved the performance of the Uniqlo website. Wrote Stress test scripts in JAVA, JMeter and resource monitoring shell scripts. One of the 5 interns selected by NTT DATA from all over India.

Projects/Awards

- **ConnectX IoT platform – Best BTech project award by Cognizant (100+ teams), Finalist at Smart India hackathon (10,000+ teams), Winner at Tech Mahindra IoT hackathon (400+ teams)**
  AWS IoT, Azure IoT like End to end Industrial IoT platform to automate, deploy, manage, analyze connected devices. Built for scalability and high availability; ConnectX supports 'edge-analytics', data visualization, real-time data-analytics and multiple H/W platforms. Brings down time for IoT deployment by a minimum 70%. *[Spark Streaming, Kafka, eMQTT, EC2, Android, MongoDB, MEAN stack, NodeRED, Scala, Erlang]*
- **Apache Spark framework for optimized 3d Spatial data analytics (Ongoing Master's thesis)**
  Spark based framework to enable quick, effective and optimized querying of 3D spatial data. Developing this framework under Professor Fusheng Wang at the Stony Brook Data Management and Bio-Medical data analytics lab. *[Spark, Hadoop, Scala, C++, JAVA]*
- **FindX smart-city platform – Winner at Avaya smart city hackathon (100+ teams), Winner at IEEE PICT Credentz 2017 (Inter-college), Winner Digital Pune city hackathon (500+ teams), Winner at Honeywell Mobility hackathon (200+ teams)**
  Fully functional social media platform to connect citizen of Pune city with government officials in real time. Revolutionized emergency services by drastically reducing response time through the 'Smart SOS' system. Built on a real-time location tracking framework supporting integration with smart-phone and web-applications. Got incubation support from Persistent systems for building the location tracking service for Public buses in Pune city (Uber for public transport) with distributed-scalable backend. *[MQTT, JAVA, Android, LAMP Stack, Spark]*
- **Mixed reality interactions platform – Winner at FCBayern Hackdays 2018 Siemens challenge (1500 participants)**
  A computer vision and AI powered interactive platform redefining chatbots. Renders 3d models of football legends who can interact (With life-like expressions, voice and motion). AI is powered by various data APIs, BLE Beacon advertisements & camera feeds to have highly personalized interaction with users. *[ReactJS, OpenCV-JS, NodeJS, IBM Watson APIs, ArtyomJS – active listening for chatbot, TrackerJS, WebgazerJS]*
- **'Kym' decentralized credit score calculation system – Winner at HackD hackathon by Envestnet (300+ teams)**
  Alternative credit score calculation system. Uses secure data mining, social media/internet crawling and machine learning to extract data from previously untouched data points – Social media, Emails, SMS. Reinforcement learning helps accurately predict credit score thereby bringing more users into the scope of credit scoring. Built multiple applications over this framework – Social lending platform (YHacks 2017), GoPay credit-based e-wallet (GoJek hackathon finalist), Finance chatbot (Barclays open-minds hackathon finalist). *[R, MongoDB, Gmail-Twitter-Facebook-Klout APIs, Reinforcement learning, NLP, Android, Key-word mining, D3JS-MEAN stack analytics dashboard]*
- **Super sensor Adhoc network**
  Adhoc network of 'super sensors' that can detect any events happening in the room using Machine learning and active listening of different sensor signals. Eliminates need to have sensors in every appliance; provides extended range and mobility using Adhoc networks over BLE. *[TensorFlow, RaspberryPi, Python, Android Things, AODV protocol, BLE beacons]*
- **Phenotypic prediction of Transcriptomic features**
  Created machine learning model for multi-label prediction of population for Salmon (Transcript qualification). Built models using Decision Trees, Random forests, SVM on Salmon dataset. Got best accuracy of 87.3% using decisions trees. *[Python, sklearn]*