

Jay Lohokare

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Education

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| 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 TENSYP 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, Ethereum, MEAN stack (NodeJS, AngularJS), ReactJS, HTML-CSS, MongoDB, MySQL, Arduino, Intel Edison/RaspberryPi, C++, Spark, Kafka, Android-iOS development, MQTT, XMPP, Unity 3d, Git, Weka, TensorFlow, D3JS.

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

- **'UpTic' – Bloomberg terminal for Cryptocurrency**
One stop platform for everything about cryptocurrency. Get news, social feeds, live exchange rates, sentiments, etc all on one page. Highly customizable filters and data sources. Big data backend analyzes sentiments of news, tweets and other data sources in real time to predict change in cryptocurrency rates. *[Spark Streaming, Kafka, Cassandra, Redis, ReactJS]*
- **'InsureBits' – Insurance platform based on Ethereum**
Smartphone insurance platform leveraging blockchain to enable instant insurance claim approval. The platform is based on a pool based insurance model that lets users form pools to insure their smartphones. An application on smartphone detects if the phone is broken (using Machine learning on sensors data). Designed and developed the blockchain backend, the financial model for insurance, the smartphone application and machine learning model. *[Ethereum, ReactJS, Android, MongoDB]*
- **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 queries (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]*
- **Interactive finance chatbot – Winner at Barclays Open Minds hackathons**
A voice assistant to help manage finances – AI captures finance data from SMS, Emails, various data APIs; and Machine learning algorithms mine for trends and patterns in the data. Users can interact with the AI to get help in making decisions related to spending patterns. *[CMU Sphinx voice active listening, Key-word extraction for basic NLP, Android, PHP REST APIs]*