Obulapathi N Challa

Mobile: 352-410-3713 Email:obulpathi@gmail.com Website: www.obulpathi.com
GitHub: www.github.com/obulpathi LinkedIn: www.linkedin.com/in/obulpathi

Objective

To lead a data organization with my unique combination of skills and expertise in Machine Learning, Deep Learning, Big Data, Cloud Computing, Internet of Things, Business Management and with my proven experience in similar initiatives.

Professional Summary

- Expertise and leadership in building products, teams and communities around Data, Data Science, Deep Learning, Cloud, Big Data, Internet of Things, and Open Source.
- Experience and proven ability in attracting, nurturing, retaining and empowering talent.
- Ability to drive innovation in data organizations through MeetUps, Hackathons, Rapid Prototyping and Real-time Analytics; Experience in fostering learning culture in data organizations.
- A decade of experience in Machine Learning, Cloud Computing, Big Data, and IoT.
- Experience in increasing product velocity by streamlining Agile practices like Scrum, Kanban, CICD, Automated Testing, DevOps, Simple Design, and Pair Programming.

Technical Skills

Data Science: Machine Learning, Deep Learning, TensorFlow, Pandas, Scikit, Jupyter, Tableau
Cloud: Google Cloud, AWS, Azure, OpenStack, Data Center, Containers, Docker, Kubernetes
Big Data: Hadoop, Spark, Flink, Beam, Dataflow, NoSQL, Cassandra, Neo4j, BigQuery
Analytics: Consumer Analytics, Image, Speech, Natural Language and Social Media Analytics
IoT: AVR, ARM, DSP, ZigBee, WSNs, Memory Devices, Sensors, I2C, SPI, USART, CAN

Business Expertise

Management: Highly experienced with managing people, software projects and systems. Expertise in understanding complex systems and reducing risk by simplifying them. Well versed with Aglie practices including Scrum, Kanban, JIRA, CICD, DevOps, Automated testing.

Hiring: Experience in recruiting, training, and managing IT staff. Experienced with hiring people with the skills needed to operate and support a wide range of IT divisions, including Data Science, Deep Learning, Cloud Computing, Big Data, Internet of Things, Data Center Operations and Software Development. Performed salary administration and conducting interviews. Made recommendations for new hires, consultants and replacement personnel.

Budgeting and Cost Control: Experience in taking business needs, translating them into requirements in terms of people, software and hardware; Boiling down the requirements into budget estimates and plans. Experienced with controlling or reducing costs while maintaining a high level of service to users, whenever possible. Performed several initiatives to identify and recommend new technology solutions for reducing cost and improving functionality.

Vendor Relationship Management: Participated in several hardware and software evaluations and maintained vendor contracts. Well versed with identifying and evaluating new tools/technologies for various purposes. Experienced with RFI, RFQ, and RFP processes. Worked with business systems documentation, workflow analysis/process, and re-engineering.

Driving Innovation: Expertise in several innovation driving initiatives such as Hackathons, MeetUps, Tech Talks and Tech Crews. Created and organized several MeetUp groups on Deep Learning, Data Science, Cloud and Big Data. Conducted various educational programs for training people on variety of topics including TensorFlow, Docker, Kubernetes, NoOps, DevOps, Hadoop, Spark and more. Organized company wide internal tech-talks for knowledge sharing.

Education

PhD in Cloud Computing and Big Data from University of Florida 2013
Dissertation Title: CubeSat Cloud, a framework for distributed storage, processing and communication of remote sensing data on CubeSat Satellite clusters.

Masters in Electrical and Computer Engineering from University of Florida 2010

Bachelors in Information and Communication Technology from DA-IICT 2007

Experience

BI Big Data Expert at Nike June 2016 - Present
Responsible for designing and implementing the machine learning platform using Jupyter, TensorFlow, Pub/Sub and Kubernetes on Google Cloud and reduced the turn-around time for consumer recommendations from weeks to seconds. Designed and built POCs for Data Lake and streaming analytics platform. Built frameworks for analyzing images, text, and social media. Built recommendation engines for real-time product, activity and workout recommendations.

Big Data Cloud Analytics Developer IV at Monsanto Aug 2015 - June 2016
Responsible for creating Cloud architecture for Monsanto on Google Cloud and helped reduce Cloud costs by more than 50% across various divisions. Designed and built data science platform using TensorFlow, Jupyter, Kubernetes on Google Cloud. Architected the data pipeline that ingest billions of messages into Kafka in AWS. Built frameworks for deep learning on large scale image analytics and genome prediction models.

Software Developer II at Rackspace Inc. Mar 2014 - Aug 2015
Engineered OpenStack Poppy (CDN as a Service) and OpenStack Zaqar (Queuing system). Designed and developed solutions for log management, batch processing, real-time streaming and analytics using Spark, Hadoop, Pig Latin and Hive. Designed and built highly available and scalable web applications using Cassandra, MongoDB, Redis, Worker/Queue mechanisms.

Software Development Engineer at Amazon AWS May 2013 - Aug 2013

MAC Protocol Developer at xG Technology Sep 2011 - Dec 2011

Radio Software Integration Intern at BlackBerry May 2011 - Aug 2011

Research/Teaching Assistant at University of Florida Jan 2009 - April 2013

Research/Teaching Assistant, Research Engineer at DA-IICT Aug 2006 - May 2008

Projects

OpenStack Poppy and OpenStack Zaqar 2014 - 2015
Core contributor to OpenStack Poppy and OpenStack Zaqar. Engineered significant portion of their APIs. Designed and implemented several scalability and high availability mechanisms. Built POCs and implemented log management, analytics, billing, streaming analysis solutions.

Bitcoinpy, Reversecoin and Blockchain 2013 - 2015
Created Bitcoinpy, a Python implementation of Bitcoin with focus on hackability and modularity. Created Reversecoin, the worlds first cryptocurrency with reversible transactions.

CubeSat Cloud 2010 - 2014
Designed and implemented "CubeSat Cloud", a framework for distributed storage, processing and communication of remote sensing data using CubeSat Distributed File System (inspired by HDFS), CubeSat MapReduce (like MapReduce) and CubeSat Torrent (inspired by Torrent).

FUNSAT V & VI and SwampSat 2008, 2009
Lead UF's Small Satellite LASER Communication subsystems team in FUNSAT V and FUNSAT VI; Bagged first prize in FUNSAT-V satellite design competition held by NASA.

Built IoT devices for CENSE, WildCENSE and SmallCENSE projects 2006 - 2008

Built a Custom Linux from scratch 2005

Leadership & Activities

Organizer for Deep Learning Group & Hackathons at Nike 2016 - Present

Organizer for Cloud and Big Data & Google Developer Groups 2014 - Present

Tech Talk Organizer and TechCrew member at Rackspace 2014 - 2015