

OSAMA KHAN

CONTACT

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EDUCATION

Georgia Institute of Technology
MS-Computer Science (ML Specialization) 2020

Amazon Web Services
AWS Certified Big Data Specialist 2018
AWS Certified Developer - Associate 2015

EMC Proven Professional
Data Science Associate 2015

Institute of Business Administration
M.B.A. 2011
BS-Computer Science (AI Track) 2009

AWARDS

Institute of Business Administration
Undergraduate Gold Medal

Dec
2009

VOLUNTEERING

Various Meetups (YVR) -
Co-organizer: Serverless, Machine Learning

Jul 2017 to
Current

Polyglot Unconference

Apr 2016 to Current

Global AI Hackathon

Jun 2017 to Current

Manning Publications

Nov 2016 to Current

Microsoft Student Partner

Aug 2006 to May 2011

SUMMARY

Software Engineer with hand-on experience in distributed systems, data engineering and backend web engineering. Strong background in business consulting and people management due to past experiences from CPG, Energy, e-Sports & Private Equity industries. Interests include Philosophy, Machine Learning and History of Science.

EMPLOYMENT

ACL Services Ltd.

Big Data Engineer

Vancouver, BC

Aug 2017 to Current

Building and supporting large-scale data pipeline based on the Lambda Architectural pattern to support stream (fast data) and batch processing. Working on the pipeline infrastructure and various related services while also trying to establish the Big Data Core team and establish processes/tools around Data Governance to widen adoption of data driven decision making fueling growth phase of company.

Technologies used: Scala/Akka/Alpakka, Python, Apache: Spark, Parquet, Hive, Atlas, Zeppelin, AWS: DynamoDB, Redshift Spectrum, S3, Lambda, Kinesis, EMR, Athena, Glue, ECS, SQS, Terraform (for data infrastructure management)

Progressa

Intermediate Software Engineer

Vancouver, BC

Aug 2016 to Aug 2017

Developed micro-services to create automated, data science driven decisions in the consumer lending space and lead development of backend systems and data pipelines to enable real-time credit decisions based on the Lambda Architecture. Lead the process to productionize linear regressive credit scoring models, text processing algorithm for classification of banking transactions and initiated model server development leveraging Spark ML Pipelines for dynamic model selection/hyper-parameter tuning. Lead projects related to migrating application to a containerized infrastructure with standardized logging, service discovery and monitoring.

Technologies used: Golang, Scala/Akka, Python, NodeJS, Flask, Postgres, MongoDB, Apache: Kafka, Avro, Nifi, Cassandra, Spark, AWS: ECS, SQS

Health At Hand

Consulting Technical Architect

Dubai

Mar 2017 to Jul 2017

Consulted a venture capital funded, Dubai based, HealthTech startup focused on tele-health. Responsible for platform architecture, hiring the right talent against vacant positions and mentoring development team towards achieving product roadmap targets for alpha release.

Technologies used: Python, Django, STUN/TURN servers, WebRTC, RabbitMQ, WAMP Protocol, Crossbar, Redis, Postgres

Lighthouse Labs

Mentor

Vancouver, BC

Jun 2016 to Current

Help individual students or groups of students as they work through assignments and homework material, perform one-on-one code reviews on assignment submissions and assist the Head Instructor in improving the overall curriculum as a part-time evening Mentor to the immersive web development bootcamp. Most of the material taught in the bootcamp is around NodeJS, React and Ruby on Rails.

Curatio

Full Stack Engineer

Vancouver, BC

Jun 2016 to Sep 2016

Lead web experience of health app backed by proprietary multi-party matchmaking algorithms to connect patients with their customized support group.

Technologies used: React, Redux, Ruby on Rails, Postgres

Vulcun

Product Manager (Remote)

San Francisco, Bay Area

Aug 2014 to Nov 2014

Responsible to setting a remote engineering office, sourcing talent and managing product roadmap/backlog while coordinating with the founders & sales team in SF and the design team in Serbia.

Various Positions

Business Intelligence, Enterprise Integration, Investment Analysis & Startup Engineering

Jun 2008 to Nov 2015

Lead Business Intelligence/Data initiatives at Proctor & Gambles's regional distributor. Worked in the Oil & Gas domain mostly working on Enterprise Integration project in the SAP ecosystem leveraging the SAP PI module alongside other enterprise technologies. Consulted known brands as a Digital Media consultant providing technology, mostly interactive games, for below-the-line marketing activations. Notable clients included: Coca Cola, Nokia, and Unilever. Built a funded startup in the telecom space during last year of undergrad alongside an Angel Investor based out of Singapore.

I pivoted and worked as a Senior Investment Analyst between December 2011 and December 2015.

During this time I worked on various M&A deals in the Oil & Gas domain spanning across Middle East, Africa and Southeast Asia. As a Private Equity Analyst I worked at the Family Office of the largest conglomerates of Pakistan valued at -USD 15 Bn. striving to make Food & Energy affordable, sustainable and available. Worked with a young team alongside McKinsey & Co. transforming the Family Office around multiple work streams and lead adoption of new technology for efficient workflows and robust business planning/reporting. Consulted portfolio companies around business and technology strategy, analytics and data science initiatives.

SKILLS

HUMAN LANGUAGES: Arabic, Hindi, Urdu, English

PROGRAMMING LANGUAGES: Scala, Golang, Java, Python

BACKEND WEB: ExpressJS, Akka, Flask, Sinatra, Rails

MACHINE LEARNING: MXNet, Graph Lab, Spark, RapidMiner, KNIME, Weka

DATSTORE: Amazon S3, Amazon Redshift, Amazon DynamoDb, Cassandra, Redis, MongoDB, SQLite, PostgreSQL

DEVOPS: Terraform, Git, Kubernetes, Vagrant, Docker, Bash Script, Heroku, AWS

SOFTWARE ENGINEERING: Functional Programming, Domain Driven Design, Flow Based Programming, Distributed Systems,

Concurrent Programming, Test Driven Development, Design Patterns

BUSINESS MANAGEMENT: Problem Solving, OKRs, Project Management, P&L Management, Negotiation, Kanban, SCRUM,

Product Management, Performance Management, Contracts Management, People Management, Mentoring, Client Management, Consulting

ENTERPRISE BI/ SYSTEMS INTEGRATION: ARIS BPM (SAP), SSIS, SSAS, SAP PI