FAHAD SIDDIQUI

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SUMMARY

Seasoned polyglot developer with experience in big data, data engineering & web application development. Graph databases, functional programming and clean code fascinate me.

SKILLS & INTERESTS

Languages	Golang, Scala, Python, Java
Frameworks	Play, Django, Flask, Lift, Lagom, GraphQL
Hadoop Ecosystem	Apache Spark, MapReduce, HDFS
Data Streams	Kafka, MQTT, CoAP, STOMP, AMQP
Relational Models	Slick, Django ORM
Databases	PostgreSQL, MySQL, MongoDB
DevOps	Docker, Jenkins
Cloud Computing	AWS, Google Cloud, DigitalOcean, Alibaba Cloud
Graph Databases	Neo4j, TigerGraph

WORK EXPERIENCE

Datum Brain — May 2017 - Present (3 yrs 11 mos)
Founder & CEO — Full-time — *Lahore, Pakistan*

· As a leader, looking after the custom-software development, business strategy and other aspects.
· Niche being Data Engineering, delivered 56 projects since 2018 with a 5-star client satisfaction.
· Started Scala training program to teach functional programming and it's aspects to graduates.
· Got mentioned in clutch.co's list of top 10 big data service providers in Pakistan.

Predict Data, Inc. — Feb 2018 - Jul 2020 (2 yrs 6 mos)
Co-Founder — Full-time / Remote — *New York, United States*

· Took Polymer HQ to Acceleprise, and got selected out of 200 other applicants based in US.
· Lead the team & devised the whole solution comprised of 20+ code repositories (micro-service architecture).
· Devised a serverless architecture leveraging AWS services.
· Created Q-wise strategies to boost development and achieve high-end goals.
· Successfully deployed Polymer VCO Slack application available in store.
· Wrote custom ETLs for clients (providers also) to ingest their data into our data-lake.
· Collaborated with Neo4j team to build POCs for their clients (partnership).

Parcelist LLC — Apr 2018 - Feb 2020 (1 yr 11 mos)
Lead Developer — Contractual — *Greater Philadelphia Area, United States*

· Directly managed the start-up's development team.

University of the Punjab — Feb 2019 - Jun 2019 (6 mos)
Visiting Lecturer — Contractual — *Lahore Pakistan*

· Taught data structures & algorithms (CMP-210) course in spring-semester (2019).

Strategic Systems International — Jun 2016 - May 2017 (1 yr)
Software Engineer — Full-time — *Lahore, Pakistan*

· Worked on reactive web applications using Play Framework, Scala, Python, Slick, PostgreSQL, AngularJS, Jenkins, Docker, Amazon Elastic Beanstalk, S3 and RDS.
· Worked as a full-stack software engineer.
· Incorporated testing framework in application.

Platalytics Inc. May 2015 - Jun 2016 (1 yr 2 mos)
Software Engineer (Big Data & IoT) — Full-time *Lahore, Pakistan*

· Worked on a big data SaaS platform capable of ingesting terabytes of data. A complete solution for data scientists and analysts.
· Implemented Spark job server to schedule jobs in a separate running process communicating through Akka back to server.
· Research & development of IoT messaging queues; MQTT, CoAP, AMQP in embedded devices; Arduino, Raspberry Pi, Intel Edison/Galileo.
· Contributed in open source library (celery/pyamqp) to support OpenWrt C libraries.
· Wrote internet of things SDK for SaaS platform.

University of the Punjab Oct 2015 - Mar 2016 (6 mos)
Visiting Lecturer — Contractual *Lahore, Pakistan*

· Compiled enterprise application development (IT-477) course.

EDUCATION

Bachelor in Computer Science 2011 - 2015
Punjab University College of Information Technology
University of the Punjab, Lahore, Pakistan. CGPA: 3.59/4.00

HSSC, Class XII 2008 - 2010
Government Islamia College
Civil Lines, Lahore, Pakistan. 78% **SSC, Class X** 2006 - 2008
Private School, Lahore, Pakistan. 80%

NON-ACADEMIC PROJECTS

· Python library to redact information in documents by regex.
· A Golang package that detects and redacts PII information out of enterprise data (raw files).
· Magick - a cron job that generates random hue-d wallpaper according to the current consumption of processor.
· A data catalog application that masks the PII data and produces partially encrypted user files. (Scala, Play Framework, Apache Spark, Stanford NLP, Neo4j)
· A cloud application to assist tenants receive their package. (Scala, Play Framework, Embedded C)
· An exam conducting site that lets user log in and attempt an auto-generated exam. (Akka HTTP, GraphQL, Open Neo4j Enterprise)
· A distributed webcrawler on top of Apache Spark. (Scala, Python, Apache Spark)
· Spark-based SaaS platform. (Scala, Apache Spark)
· Graph data visualizer atop big data ecosystem. (Scala, Apache Spark, Neo4j, D3.js)
· Physical kiosk-based package delivery system. (C, Scala, OpenCV, AWS Services)

ACADEMIC PROJECTS

· Cost-effective wearable health care device to track blood health. (Embedded C)
· Paper Flight; a 2D plane game created in native Android. (Java)
· LiveDrawing; real-time drawing transmission software. (Java, Socket Programming)
· Text file compressor based on LZW compression algorithm. (C++)
· Breakout; a traditional game with 2D physics. (Assembly Language)
· Modified "top" (shell command) to show opened files at process level. (C, Unix Kernel)

KEY INTERESTS

Open-source, big data, video games & writing technical blog.