

# FAHAD SIDDIQUI

C-261, St. 5, DHA Phase 8, Lahore, Pakistan  
+92 333 4166 979 — fsdqui@gmail.com

## 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

---

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

## WORK EXPERIENCE

---

|  |  |
|--|--|
| <b>Datum Brain</b><br><i>Founder &amp; CEO — Full-time</i> | May 2017 - Present (3 yrs 11 mos)<br><i>Lahore, Pakistan</i> |
|--|--|

- 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.

|   |   |
|---|---|
| <b>Predict Data, Inc.</b><br><i>Co-Founder — Full-time / Remote</i> | Feb 2018 - Jul 2020 (2 yrs 6 mos)<br><i>New York, United States</i> |
|---|---|

- 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).

|   |  |
|---|--|
| <b>Parcelist LLC</b><br><i>Lead Developer — Contractual</i> | Apr 2018 - Feb 2020 (1 yr 11 mos)<br><i>Greater Philadelphia Area, United States</i> |
|---|--|

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

|   |   |
|---|---|
| <b>University of the Punjab</b><br><i>Visiting Lecturer — Contractual</i> | Feb 2019 - Jun 2019 (6 mos)<br><i>Lahore Pakistan</i> |
|---|---|

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

|  |   |
|--|---|
| <b>Strategic Systems International</b><br><i>Software Engineer — Full-time</i> | Jun 2016 - May 2017 (1 yr)<br><i>Lahore, Pakistan</i> |
|--|---|

- 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.

**Plataalytics Inc.***Software Engineer (Big Data & IoT) — Full-time*

May 2015 - Jun 2016 (1 yr 2 mos)

*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***Visiting Lecturer — Contractual*

Oct 2015 - Mar 2016 (6 mos)

*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 &amp; writing technical blog.