

# FAHAD SIDDIQUI

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## SUMMARY

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

## SKILLS & INTERESTS

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<b>Languages</b>	Golang, Scala, Python, Java
<b>Frameworks</b>	Play, Django, Flask, Lift, Lagom, GraphQL, go-chi, gin
<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, Cassandra, Neo4j
<b>DevOps</b>	Docker, Jenkins
<b>Cloud Computing</b>	AWS, Google Cloud, DigitalOcean, Alibaba Cloud

## WORK EXPERIENCE

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<b>Datum Brain</b> <i>Founder &amp; CEO — Full-time</i>	May 2017 - Present (3 yrs 11 mos) <i>Lahore, Pakistan</i>
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- 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> <i>Co-Founder — Full-time / Remote</i>	Feb 2018 - Jul 2020 (2 yrs 6 mos) <i>New York, United States</i>
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- 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> <i>Lead Developer — Contractual</i>	Apr 2018 - Feb 2020 (1 yr 11 mos) <i>Greater Philadelphia Area, United States</i>
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- Directly managed the start-up's development team.

<b>University of the Punjab</b> <i>Visiting Lecturer — Contractual</i>	Feb 2019 - Jun 2019 (6 mos) <i>Lahore Pakistan</i>
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- Taught data structures & algorithms (CMP-210) course in spring-semester (2019).

<b>Strategic Systems International</b> <i>Software Engineer — Full-time</i>	Jun 2016 - May 2017 (1 yr) <i>Lahore, Pakistan</i>
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- 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. Worked on a project ImpactUs Marketplace which was later mentioned in Forbes. This was a very challenging task and I lead the team with 100% client satisfaction.

**Platalytics 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**

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**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**

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- 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**

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- 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**

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