SAQIB ARFEEN

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CAREER SUMMARY

Software engineer • Backend engineer • Data engineer

A software engineer with a BS in computer science and 6+ years of experience building SaaS products in cloud infrastructure, ERP, Big data and Blockchain.

AREAS OF EXPERTISE

- Programming: Javascript, Python, C++, Java, PHP, Golang
- Libraries: Node.js, React, Flask, Pandas, NumPy, Nvidia CUDA, Suitescript 1.0 and 2.0
- Databases: Postgres, MySQL, MongoDB, ElasticSearch, Graphite, InfluxDB, Hadoop, Spark
- Message brokers: Kafka, RabbitMQ, Redis
- Data Visualization: Grafana, Kibana, BIRT, Matplotlib
- DevOps Tools: Kubernetes, Docker, Prometheus, Github Actions, Puppet, Saltstack, Nagios, Icinga
- Cloud: AWS, GCP, OpenStack, Azure, Netsuite SuiteCloud Platform

PROFESSIONAL EXPERIENCE

Seed Labs, Karachi   **Oct 2021 – Present**

A startup company building a decentralized exchange for trading of perpetual futures contracts.

Senior Software Engineer

- Optimized the algorithms for the backend systems including the order-matching engine and blockchain settlement layer by identifying the bottlenecks and researching various concurrency techniques.
- Instrumented the codebase to monitor the four golden signals: latency, traffic, errors, and saturation.
- Migrated the infrastructure from Virtual Machines to Kubernetes, making it scalable, easy for continuous deployment, less time to manage, while cutting the infrastructure costs by 80%.

Folio3 Software Inc, Karachi   **Nov 2019 – Sep 2021**

Digital transformation services and strategy consulting for enterprises, SMBs and start-ups.

Senior Software Engineer

A senior engineer in the Netsuite ERP team, responsible for the development of business process customizations and integrations.

- Took an initiative and voluntarily built an in-house knowledge base of the ERP design patterns and business workflows slashing the development cost of routine projects by upto 50%.
- Delivered ERP and Ecommerce integration projects with high quality to various Fortune 500 companies that lead to long-term partnerships and retention.

Ivolve Technologies, Karachi   **Jun 2019 – Nov 2019**

A company that provides hybrid-cloud management services and products for the emerging markets.

Senior Software Engineer

- Recruited, trained and helped build the team to transition the product development from an outsourced contractor to in-house, increasing agility and reducing time to market.
- Hybrid-cloud Middleware: Integrated OpenStack with other cloud services.
- Monitoring system: Developed a monitoring solution for OpenStack's cloud using tools including Ceilometer, Gnocchi, ElasticSearch, Graphite and Grafana.

Cloud 9 Networks, Karachi   **July 2016 – May 2019**

A data center build and virtualization services company focused on building cloud-first solutions.

Software Engineer

Onboarded when the founders started to build a big-data software solution for a large "customer loyalty card payment system" within the MENA region. Later developed two more products from zero to production.

- Played a key role in the research, design and implementation of various SaaS products including B2B Business Intelligence, Openstack cloud monitoring and network infrastructure monitoring.
- Built the products in cycles of weeks instead of months e.g bit.ly/siem-saqib
- Trained new hires, and helped them become effective engineers at the company.
- Pivoted and delivered a new product for Actionable Intelligence in IT that won the contract from a top telecom provider of Pakistan.

FAST NUCES, Karachi   **Jun 2015 – Aug 2015**

Research Assistant

- Applied deep learning research on puzzle solving and used Copris Theorem Prover for data generation.
- Designed and deployed a Message Passing Interface(MPI) and a Hadoop cluster for the HPC Syslab.

EDUCATION

BS, Computer Science CGPA: 3.03/4.0
FAST NUCES, Karachi

CERTIFICATIONS

- Coursera: The Data Scientist's Toolbox (CZ4FS4J6T972)
- Coursera: AI for Everyone (F926BXSQE638)
- Coursera: Tensorflow on Google Cloud (KJ3QWPW3FJUT)
- Coursera: IBM Cloud Private: Deploying Microservices with Kubernetes (LD83GGMJ84L5)
- Coursera: Neural Networks and Deep Learning (UMRA4C82PK8V)

VOLUNTEER WORK

PIAIC, Karachi   **Jan 2019 – Dec 2020**

- Worked as an assistant teacher and mentor in a nation-wide program to help the Pakistani youth by mass IT training bootcamps.
- Planned and helped conduct the on-site classes for elementary computer science courses and moderated the social media.