

CAREER SUMMARY

Backend engineer • Software engineer • Data engineer

- A software engineer with over six years of experience building SaaS products in Cloud infrastructure, ERP, Big data and Blockchain.
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AREAS OF EXPERTISE

- **Programming:** Javascript, Python, Java, C++, PHP, HTML5, CSS3
 - **Libraries:** Node.js, React, Flask, Pandas, NumPy, Nvidia CUDA, Suitescript 1.0 and 2.0
 - **Databases:** Postgres, MySQL, MongoDB, ElasticSearch, Graphite, InfluxDB
 - **Message bus:** Kafka, RabbitMQ
 - **Data Visualisation:** Grafana, Kibana, BIRT, Matplotlib
 - **DevOps Tools:** Kubernetes, Docker, Prometheus, Github Actions, Puppet, Saltstack, Nagios, Icinga
 - **Cloud:** AWS, GCP, OpenStack, Azure, Netsuite SuiteCloud Platform
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PROFESSIONAL EXPERIENCE

Seed Labs, Karachi

Oct 2021 – Present

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

Senior Software Engineer

- Developed and optimized the algorithms for the backend systems including the order-matching engine, blockchain settlement layer, the REST APIs and various other micro-services that make HFT possible.
- Proposed and implemented optimal and feasible solutions for various hard engineering problems.
- Migrated the whole infrastructure from Virtual Machines to Kubernetes, making it: scalable, easy for continuous deployment, less time to manage; all while cutting the infrastructure costs by 80%.

Folio3 Software Inc, Karachi

Nov 2019 – Sep 2021

Senior Software Engineer

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

- Took initiative and voluntarily built an in-house knowledge base of the ERP design patterns and business workflows to help speed up the development of routine projects.
- Integrated Netsuite ERP with the various E-commerce and 3PL systems.
- Worked as an offshore developer for our clients that included Fortune-500 companies of the USA.

Ivolve Technologies, Karachi

Jun 2019 – Nov 2019

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

Senior Software Engineer

The Hybrid Cloud product was outsourced when I was onboarded for handover of the product knowledge from the contractor and lead the team to start the development in-house.

- Hybrid-cloud Middleware: Integrated OpenStack and other cloud services by developing a middleware.
- 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-centre 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 key role in research, design and implementation of three SaaS products: B2B Business Intelligence, Openstack cloud monitoring and network infrastructure monitoring. Worked closely with the team and built the products in cycles of weeks instead of months e.g see bit.ly/siem-saqib
- Trained and mentored new hires, and helped them become effective engineers at the company.
- Persisted with the team, till it pivoted and built a new product for Actionable Intelligence in IT and closed a major deal.

FAST NUCES, Karachi

Jan 2015 – Jun 2016

Research Assistant - Nvidia HPC Lab of FAST NUCES

- Applied [deep learning research](#) on puzzle solving and used [Coprins 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

- Worked as an assistant teacher and mentor in a nation-wide program to help the Pakistani youth by mass IT training bootcamps.
- Planning and helping to conduct on-site classes for elementary computer science courses and moderating the Facebook group.