

CAREER SUMMARY

Backend engineer • Software engineer • Data engineer

- *A creative software engineer* with over 6 years of experience building SaaS products.
 - *An engineer who can manage the complexity* of building simple solutions to difficult problems.
 - *A diverse skilled engineer* with experience of Cloud computing, Big data, Blockchain and ERP systems.
 - *A team player and a mentor* with a focus on the long-term success of the organization.
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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
 - **Databases:** Postgres, MySQL, MongoDB, ElasticSearch, Graphite, InfluxDB, RabbitMQ, Kafka
 - **Data Visualisation:** Grafana, Kibana, BIRT, Matplotlib, Dimple.js
 - **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 perpetual futures contracts.

Senior Software Engineer

Brought in to optimize and further develop the back-end systems that power the exchange: including order-matching engine, blockchain settlement layer, the REST API and the micro-services that make HFT possible.

- *Developed and optimized the algorithms* for the backend systems of a high frequency trading platform.
- *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%.
- *Reviewed the design documents* and pull requests of the features developed within the team.

Folio3 Software Inc, Karachi

Nov 2019 – Sep 2021

Senior Software Engineer

A senior engineer in the Netsuite ERP team, responsible for development of business process customisations 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 day to day projects.
- *Worked as an offshore developer* in the teams of our clients that included companies building consumer drones and other high-tech companies of USA.

Ivolve Technologies, Karachi

Jun 2019 – Nov 2019

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

Senior Software Engineer

The Hybrid Cloud product was outsourced when I was onboarded for taking the handover of the product knowledge from the contractor and lead the team to resume 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

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

- **Built all the products that our company planned to market , using rapid development methodology** taking additional responsibilities and turning the ideas into MVPs within the cycle of weeks instead of months e.g [Cloud Monitoring](#).
- **Stayed with the team** till it completed the first deal with a large telecommunication provider.
- **Recruited new grads and guided** them to become productive engineers at the company.

FAST NUCES, Karachi

Jan 2015 – Jun 2016

Research Assistant - Nvidia HPC Lab of FAST NUCES

- [Applied deep learning research](#) on puzzle solving using Copris Theorem Prover for data generation.
- Designed and deployed a Message Passing Interface(MPI) and a Hadoop cluster for HPC class of fall-2015.

EDUCATION

BS, Computer Science CGPA: 3.03/4.0

FAST NUCES, Karachi

CERTIFICATIONS

- Coursera: [The Data Scientist's Toolbox](#)
- Coursera: [AI for Everyone](#)
- Coursera: [The Data Scientist's Toolbox.](#)
- Coursera: [IBM Cloud Private: Deploying Microservices with Kubernetes](#)
- Coursera: [Neural Networks and Deep Learning](#)

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.
- **Involved in the planning and helped conduct the classes** for elementary computer science courses and moderated the Facebook group.