

## CAREER SUMMARY

### Backend engineer • Software engineer • Data engineer

- *A creative software engineer* with over 6 years of experience building SaaS products.
  - *A diverse skilled engineer* with experience of Cloud computing, Big data, Blockchain and ERP systems.
  - *A team player* with focus on long-term success of my team.
  - *A mentor* guiding my colleagues to grow in their lives and career.
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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, Oracle Netsuite SuiteCloud ERP
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## PROFESSIONAL EXPERIENCE

### Seed Labs, Karachi

Oct 2021 – Present

*A startup building a modern decentralised perpetual futures exchange.*

#### Senior Software Engineer

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

- *Developed and optimised the algorithms* for the backend systems of a high frequency trading exchange.
- *Migrated the whole infrastructure* from Virtual Machines to Kubernetes, making it: scalable, easy for continuous deployment, less time to manage 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 team, responsible to develop business process customisations and integrations. Used to get requirements directly from customers.

- *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 team member* for our clients that consumer drones and other high-tech companies of USA.

### Ivolve Technologies, Karachi

Jun 2019 – Nov 2019

*A services company that provides Cloud and Networking services and builds products for emerging markets.*

#### Senior Software Engineer

The product was being developed by a third-party contractor when I was onboarded for taking the handover of the product knowledge and helped the team quickly start the development in-house.

- **Hybrid-cloud Middleware:** Integrated OpenStack with various public 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-centre build and virtualisation 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 one of their payment system clients within the MENA region.

- **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 closed the first deal with a large telecommunication provider in Pakistan.
- **Recruited new grads and guided** them to become productive engineers in the company.

**FAST NUCES**, Karachi

**Jan 2015 – Jun 2016**

### Research Engineer

- [Applied deep learning research](#) on algorithms for puzzle solving with Copris Theorem Prover.

### Systems Engineer - Nvidia HPC Lab of FAST NUCES

- Designed and deployed a Message Passing Interface(MPI) and Hadoop cluster for HPC class of fall-2015

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## EDUCATION

**BS, Computer Science CGPA: 3.03/4.0**

FAST NUCES, Karachi

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## 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](#)

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## 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 classes** for elementary computer science courses and moderated the Facebook group.