

I am a software engineer having 6+ years of experience. My expertise is in designing systems and researching solutions for complex mathematical and business problems. I want to make positive contributions to the society.

## EDUCATION

- **National University of Computer and Emerging Sciences** Karachi  
*BS Computer Science, CGPA 3.03/4.0* 2012 – 2016

## TECHNICAL SKILLS

- **Programming:** JavaScript, TypeScript, Python, Java, C++, Rust.
- **Web:** Node.js, React, Flask, HTML, CSS.
- **Libraries:** Pandas, Numpy, Nvidia CUDA, SuiteScript.
- **Databases:** MySQL, Postgres, MongoDB, Elasticsearch, Graphite, Influxdb, Hadoop, Apache Hive.
- **Data visualization:** Grafana, Kibana, BIRT.
- **Network monitoring:** Prometheus, Elasticsearch, Nagios, Icinga.
- **Automation:** Puppet, SaltStack.
- **Cloud :** Openstack, AWS EC2, GCP, Kubernetes, Netsuite SuiteCloud ERP.

## EXPERIENCE

- **Seed Labs** Karachi  
*Sr Software Engineer* Oct 2021 - Present
  - **Firefly:** Writing code for a fast and low-fee decentralized financial exchange.
- **Folio3 Software** Karachi  
*Sr Software Engineer* Nov 2019 - Sep 2021
  - **Netsuite ERP Customization:** Business process design and customizations with Suitescript and React.
  - **Ecommerce Connector:** Development of a connector that integrates Oracle Netsuite with e-commerce systems.
- **Involve Technologies** Karachi  
*Sr Software Engineer* Jul 2019 - Nov 2019
  - **Hybrid-cloud Middleware:** Took part in the integration of Openstack with other public cloud services.
  - **Monitoring system:** Developed a monitoring solution for Openstack's cloud using tools including Ceilometer, Gnocchi, Elasticsearch, Graphite and Grafana.
- **Cloud9 Networks FZE** Dubai  
*Software engineer* Jul 2016 - Jun 2019
  - **Cloud Monitoring Software:**
    - \* Developed a logging, monitoring and alerting system for Openstack cloud.
    - \* Integrated a telemetry system for Openstack cloud.
  - **Network Monitoring System:**
    - \* Development of a network monitoring system that monitors thousands of customer premises equipment: collects and stores metrics. Built monitoring dashboards for data visualization and integrated alerting and ticketing systems.
  - **Big Data Analytics Engine:**
    - \* Developed a REST API in Java Spring and frontend in AngularJS.
    - \* Designed and deployed a Hadoop cluster and created BIRT reports from HIVE. Created Oozie jobs to schedule HIVE scripts.
  - **PNDA Project:**
    - \* Deployed PNDA Big data network analytics toolchain on Openstack cloud.
- **FAST-NUCES**  
*Research Assistant* Jan 2015 - Jun 2016
  - **Research Assistant - Machine Learning:** Research on puzzle solving using various data-driven techniques. Applied deep learning algorithms on puzzle solutions generated from Copris Theorem Prover. <http://dx.doi.org/10.14569/IJACSA.2017.080364>
  - **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.