Saqib Arfeen

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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*

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.

Ivolve 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 — Karachi
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.

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**: Github Actions, Puppet, SaltStack.
- **Cloud** : Openstack, AWS EC2, GCP, Kubernetes, Netsuite SuiteCloud ERP.