Alamgir Munir Qazi

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I have over 5 years of experience in the industry in various software development, full stack development, network programming, deployment and management (team lead) roles. I have mostly worked in startup environments where my focus included working on multiple technologies, being jack of all trades and getting things done. I always focus on problem solving rather than identifying myself with specific tools and technologies. I started my career as an Angular UI developer/designer and Node.js backend developer and kept on learning new technologies. My major learning focus for the next few years are: Rust, Kubernetes, DNS, SDN/NFV, eBPF, Networks Programming, 5G Networks.

Tools, Platforms & Technologies

These are the tools / platforms / technologies that I've used in some capacity over the last few years

Front-end

Angular, React.js (Next.js)

Back-end

Node.js, Python, C, Go, DPI, Serverless Functions, DPDK.

Databases

MongoDB, Elasticsearch, Clickhouse, Redis, Postgresql

DevOps / Cloud / Platforms / Tools

Nginx, Docker, Kubernetes (K8s/K3s), Jenkins, MetalLB, PowerDNS, dnsdist, KnotDNS, BIND9, KVM/QEMU, Openstack, Prometheus, Grafana, Zookeeper, Ansible, Apache Kafka, Harbor (Registry), Amazon EC2, Amazon Elastic Beanstalk, AWS Route 53, AWS S3, AWS CodePipeLine, Google Kubernetes Engine (GKE), Google Object Store, Google Cloud Build, Hortonworks Data Platform (HDP). Bare Metal deployments, Vmware / KVM Based deployments.

Misc:

Sandvine DPI, Fortinet Firewalls, Hillstone Firewalls, Niagara Packet Broker. Integrations with CG NAT, Radius Feeds.

Iotascale Pvt Ltd, Islamabad – Snr. Software Engineer | Team Lead

Feb 2022 – present

My involvement was in architecture, design, developing and deploying various products as a team lead / manager and involved in all phases of software development.

We developed 6 major products which were built for enterprises and telcos.

Atrios (atrios.io)

DNS based security & filtering solution for ISPs, telcos and for home owners. Atrios provides many features such as Content filtering, App blocking & parental control.

Quantum BI

Big Data Analytics platform with integrations available with different DPI/Firewall feeds e.g. Fortinet Firewalls. Quantum BI's extensive insights give you an idea of what is actually happening in your network.

Octane

Lead the team and worked on all parts of the software application for developing "Octane – Unified Operations Center". This application provides URL, IP & VPN Filtering and Whitelisting. This was integrated with Sandvine DPI.

Vortex

CDR Reconciliation tool built using Big Data technologies (Clickhouse).

Matador & Genesis

Subscribe Awareness and Big Data as a service apps that ingest TBs of data. Involved from R&D to deployment. Consumption of TBs of data daily and worked on fast queries, efficient compression on commodity hardware with HDDs.

Helped design, deploy, manage 30TB+ cluster of Clickhouse.

Tech Avenue/Snskies, Islamabad – Software Engineer / Tech Lead
Feb 2020 – Feb 2022

I worked mostly as a Tech / Team Lead in a growing team of around 9-12 resources. My tasks included writingcode in Node.js, Python and C and handling the entire Infrastructure and DevOps. My role included starting projects from scratch (working on their Design and Architecture) and deliver them to production. Moreover, I was responsible for the R&D of the technologies that will be used for developing the products.

I was leading the DPI Core team. We developed inline and out-of-band (passive) packet capture tools based on libpcap and DPDK. Worked on 10G/sec traffic capture using DPDK (inline & passive). Worked on IP Filtering Solution by doing integrations with Niagara Packet Broker.

ISP Reporting Tool

Developed the ISP Portal for Etisalat. The Portal is developed on top of Sandvine python API which provides us with Analytics for all ISPs. The UI was build in Angular while the backend was developed in Python (Flask).

International Islamic University, Islamabad – Visiting Lecturer
Sep 2019 – Jan 2020

Taught "Mobile Application Development" course to BS Software Engineering students of 7th Semester how to build cross-platform hybrid mobile applications for Android and iOS using Ionic Framework. The course also covers Angular, command line, Node.js and MongoDB. It is available online at https://github.com/alamgirqazi/mobile-application-development-course

Micromerger IT Solutions – Software Engineer / Product Lead
Oct 2017 – Feb 2020

Product Lead (March 2019 – Feb 2020)

Development of the platform Unlock'd (now https://falaya.com/) My responsibilities include working closely with the client to gather the requirements, collaborating with designers, backend developer, mobile application developer and the project manager to build a platform where people can easily buy and sell houses in Louisiana, USA without the need of an agent / broker.

Full-Stack Developer *(Oct 2017 – Feb 2019)*

I worked on multiple projects as a full stack developer. My responsibilities included building front-end in Angular, Backend in Node.js and managing devops for various projects.

I also worked on multi-tenant and microservice architecture-based applications. I got hands on experience in the following areas:

- Angular 4/5/7/8+, Angular Universal, E2E Testing (Front-end).

- Express.js, Nest.js, Loopback.js, Serverless Framework, Express-Gateway (Node.js).

- MongoDB, Postgresql, DocumentDB, Redis, CouchDB.

- Docker, Kubernetes.

- Google Cloud (Google Kubernetes Engine, Object Storage, Cloud SQL, Cloud Build (CI/CD), Container Registry).
- Amazon Web Services (Lambda, RDS, Elastic Beanstalk, CodePipeLine, Cloud Search, Route 53, DocumentDB).

Vizteck Solutions – Intern
July 2016 – August 2016

A 6-week internship as MEAN Stack Web Developer. I mostly   worked on Node.js and AngularJS projects.

Education

International Islamic University, Islamabad
BSCS - 3.38 CGPA, *2013 – 2017*
Roots College International, Islamabad
A-levels, *2011 – 2013*
Roots College International, Islamabad
O-levels, *2010*