

Zunnurain Badar

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I have a diverse background in the industry, with almost six years of experience in software development, full stack development, bigdata, deployment, and management roles. My work has primarily been in startup environments, where I've tackled multiple technologies and taken on various responsibilities, from being a jack-of-all-trades to leading teams. Rather than being tied to specific tools or technologies, I prioritize problem-solving skills. My career began with a focus on Node.js backend development and database Designing and development, but I've since continued learning and expanding my skillset with new technologies.

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, Go, PHP, Serverless Functions.

Databases

MongoDB, Clickhouse, BigQuery, Firebase, Redis, Postgresql, Lmdb

DevOps / Cloud / Platforms / Tools

Nginx, Docker, Kubernetes (K8s/K3s), Jenkins, MetalLB, PowerDNS, dnsmist, KnotDNS, KVM/QEMU, Openstack, Prometheus, Grafana, Zookeeper, Ansible, Apache Kafka, Harbor (Registry), Amazon EC2, Amazon Elastic Beanstalk, AWS Lambda, AWS Route 53, AWS S3, AWS CodePipeline, Google Cloud functions, Google Kubernetes Engine (GKE), Google Object Store, Google Cloud Build, Bare Metal deployments, Vmware / KVM Based deployments, Private / Hybrid Cloud Deployments.

Misc:

Integrations with CG NAT, Radius Feeds.

Experience

lotascale Pvt Ltd, Islamabad – Senior Software Engineer | Team Lead

Feb 2022 – present

As a team leader/manager, I participated in all stages of software development, including architecture, design, product development, and deployment.

Our team created six primary offerings specifically designed for large companies and telecommunications companies.

Atrios (atrios.io)

Atrios offers a security and filtering solution that utilizes DNS technology. This service is designed for ISPs, telcos, and homeowners and includes various features such as content filtering, parental control, and app blocking.

Quantum BI

The Quantum BI platform has the ability to integrate with various DPI/Firewall feeds, for example Fortinet Firewalls, and can handle large amounts of data. By using Quantum BI, you can gain comprehensive insights into the activities taking place within your network.

Octane

"Octane - Unified Operations Center" software application, which includes features such as URL, IP, and VPN filtering, as well as whitelisting. We also integrated the application with Sandvine DPI.

Vortex

Vortex is a tool for reconciling CDRs that assists Telecoms and regulatory authorities in reconciling their data, identifying any discrepancies, and producing statistics based on prior data.

Matador & Genesis

Software applications that provide subscription awareness and big data services. They have the ability to handle and process large amounts of data. I was involved from the research and development phase to deployment. These applications consume terabytes of data on a daily basis and have focused on optimizing fast queries and efficient data compression on standard hardware with hard disk drives (HDDs). I played a key role in designing, deploying, and managing a Clickhouse cluster that processed over 30 terabytes of data.

Tech Avenue/Snskies, Islamabad – Software Engineer / Tech Lead

July 2021 – Feb 2022

I predominantly served as a Tech / Team Lead in a team of 9 to 12 members that was continuously expanding. My primary responsibilities entailed coding in Node.js, Python, and Go, Handling all of the databases and managing the complete Infrastructure and DevOps. As a part of my job, I initiated new projects from the ground up, focusing on designing and structuring them and ultimately delivering them for deployment. Additionally, I took charge of researching and evaluating the technologies that would be utilized for creating our products.

Micromerger IT Solutions – Software Engineer / Product Lead

Mar 2018 – July 2021

Product Lead (April 2020 – July 2021)

As the product lead of the Unlock'd platform, which is now falaya (<https://falaya.com/>), my duties involved working closely with the client to gather the necessary requirements. I collaborated with application owner, designers, backend developers, mobile application developers, and project managers to create a platform that allows people to buy and sell houses in Louisiana, USA without the assistance of an agent or broker.

Full-Stack Developer (Oct 2017 – April 2020)

I worked on multiple projects as a full stack developer. My responsibilities included building front-end in Angular, Backend in Node.js/PHP, Managing the databases (SQL/NoSQL), writing cloud functions, Handling the analytics 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 4/5/7/8/9/11+, Angular Universal, E2E Testing (Front-end).
- Express.js, Nest.js, Loopback.js, Serverless Framework, Express-Gateway (Node.js), PHP (CodeIgniter).
- MongoDB, Postgresql, BigQuery, Firebase, DocumentDB, Redis, CouchDB.
- Docker, Kubernetes.

- Google Cloud (Google Cloud Functions, 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).

Hybridlogics – Junior Software Engineer

July 2017 – Feb 2018

In my role as a junior developer, I was assigned to several projects where I was responsible for constructing the front-end using Reactjs, Angular and Ionic, and the back-end using Node.js with express.js, sails, and loopback. Additionally, I was tasked with managing the databases, specifically NoSQL databases.

Education

International Islamic University, Islamabad
BSCS - 3.19 CGPA, 2013 – 2017
Kallar Kahar Science College, Kallar Kahar
Fsc (Pre Engineering), 2011 – 2013
Kallar Kahar Science College, Kallar Kahar
Metric, 2008 - 2010