

Zunnurain Badar

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I have worked in the technology industry for almost six years and have experience in a variety of roles, including software development, full-stack development, big data, deployment, and management. I have primarily worked in startup environments where I have taken on multiple responsibilities and tackled various technologies, from leading teams to being a versatile team player. Instead of focusing on specific tools or technologies, I prioritize my problem-solving skills. Initially, my career focused on Node.js backend development and database designing and development, but I have continued to learn and expand 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, DNSdist, KnotDNS, KVM/QEMU, 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

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

Feb 2022 – present

My main role was as a Tech/Team Lead and a Backend Developer for writing server side logic and different scripts. I participated in all stages of software development, including architecture, design, product development, and deployment. I was responsible for writing server side logic, managing all of the databases, and handling the deployments. I was also responsible for initiating new projects, starting from the planning and design stages and delivering them for deployment.

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 (*March 2018 – 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 – Feb2018

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.

Projects

PropDispatch

I worked on a multi-tenant application that tracked real-time sand jobs, loads, and tenants involved in the process. My responsibilities were focused on the backend team and involved writing server code, managing cloud functions on GCP, writing complex SQL queries, and overseeing a database with over 100 tables.

Falaya

I was responsible for leading the Web/Mobile Team for a Real Estate Marketplace platform that offers end-to-end solutions for buyers and sellers. This platform allows users to advertise their property, receive offers and execute transactions digitally. My specific responsibilities on this project included leading the project, writing both frontend and backend code and managing deployments on AWS.

Atrios

Atrios provides a DNS technology-based security and filtering solution for ISPs, telcos, and homeowners. The service includes content filtering, parental control, and app blocking features, making it a comprehensive solution for internet security.

Quantum BI

With the Quantum BI platform, you can connect to different DPI/Firewall feeds such as Fortinet Firewalls and manage vast amounts of data. Quantum BI provides you with a complete understanding of the events happening on your network, allowing you to gain a comprehensive insight.

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

I was part of a team that developed software applications for subscription awareness and big data services. These applications were capable of handling and processing large volumes of data. My involvement in the project spanned from the research and development phase to deployment. I played a crucial role in designing, deploying, and managing a Clickhouse cluster that efficiently processed more than 30 terabytes of data daily, with a focus on fast queries and efficient data compression on standard hardware with hard disk drives.

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*