

# Hassan Abrar

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## Professional Profile:

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With over 2 years of experience, I'm a dedicated full-stack developer at Iotascale with focus on Backend Engineering, DevOps, Databases (Clickhouse) and Infrastructure. My goal is to contribute to the industry's advancement by exploring emerging technologies such as microservices within the Node.js ecosystem. By staying updated with the latest trends and continuously expanding my knowledge, I strive to apply my expertise in practical scenarios and make meaningful contributions to the future of web app development. With a focus on gaining expertise and staying ahead in this ever-evolving field, I am committed to pushing the boundaries of what is possible in web app development.

## Experience:

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### ➤ **Iotascale** – Full-stack Developer *June 2022 – Current*

I've actively contributed to both development and deployment at Iotascale, participating across all stages of software development. My responsibilities included deploying comprehensive application services, such as Go Services, Node.js Services (via pm2), Python services (utilizing systemd scripts), and managing databases like MongoDB and ClickHouse. I possess experience deploying on various cloud platforms such as Azure and Google Cloud, as well as on-premise KVM/QEMU environments. Additionally, I played a key role in creating concise documentation and deployment guidelines for multiple in-house products. Furthermore, I established monitoring and observability using Prometheus and Grafana.

**Atrios (atrios.io)** I have contributed in Atrios which is DNS based security & filtering solution for ISPs, telcos and for home owners. Atrios provides many features such as Content filtering, App blocking & parental control.

**Octane (Backend & DevOps)** Worked as a Backend Developer and DevOps services for “Octane – Unified Operations Center”. This application provides URL, IP & VPN Filtering and Whitelisting. This was integrated with Sandvine DPI.

**Photon (Backend)** Photon is an in-house Network Management System (NMS) that I have contributed to, specifically focusing on the backend development. In this role, my primary responsibility was leveraging the capabilities of opmanager APIs.

**Firefly (Full Stack)** I have been involved in the development of a product called Firefly, which focuses on crawling URLs based on specific keywords. The main objective of Firefly is to determine the accessibility of these URLs and save the open ones. Additionally, it has the functionality to send these open URLs to the Pakistan Telecommunication Authority (PTA) via email.

**Crypteva (Backend)** Worked as a backend developer specially on Licensing module. Crypteva is a pioneer in crypto-agility and PKI as-a-Service, can help you find, control and automate any machine identity in the cloud or on premises for organizations of any size.

➤ **Bitnbytes Tech** – Backend Developer  
(June 2021 – May 2022)

During my one-year tenure at BitnBytes, I thrived as a dedicated Node.js developer, specializing in managing and querying both documented and SQL databases. My pivotal role involved designing and implementing robust API endpoints, closely collaborating with the frontend team to ensure seamless data interaction.

I excelled in optimizing database queries for enhanced performance and scalability, utilizing my strong command of SQL to craft intricate queries and extract valuable insights from structured data. I prioritized critical aspects like authentication, input validation, and error handling to guarantee the reliability and security of the APIs.

## Skills:

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### Backend

Typescript | JavaScript | Nodejs | Expressjs

### Frontend

angular2+ | Reactjs | HTML / CSS

### Database

Mongodb | MySQL | Clickhouse | Redis | Firebase

### Devops / Cloud / Tools

PM2 | Nginx | GCP | Jenkins | Docker | Dnsdist | VMware | KVM | PrometheusGrafana | Zabbix | OPManager

## Education Qualification:

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### BS (Software Engineering) Islamic University

(2016-2020) Islamabad, Pakistan