

# Hasan-Uz-Zaman Ashik

Websites: [Blog](#), [Portfolio](#), [LinkedIn](#)

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## Personal Statement

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With 4.5 years in the computer network industry, I transitioned from a network troubleshooting engineer to a full-stack developer, specializing in network automation, application development, and system design using Django, React, Python, PostgreSQL, and TIG stacks.

## Work Experience

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### Network Automation Engineer

Jun 2022 – Present

#### Senior Engineer

Sep 2022

IP Transmission Network, Fiber@Home Limited, Bangladesh.

- Network monitoring tools development.
- Django web app, python scripts development for network automation and auditing.

### Network Engineer

Dec 2019 – Jun 2022

IP Transmission Network, Fiber@Home Limited, Bangladesh.

(2 yrs 7 mos)

- Service provider network troubleshooting (BGP, IGP-OSPF, MPLS, L3VPN, L2VPN)
- Cisco, Huawei vendor devices service provisioning; GPON network troubleshooting.

## Skills

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Skill Area	Details
Programming / Scripting Languages	Python, Flux, JavaScript, Bash
Databases (TSDB+RDBMS)	PostgreSQL, MySQL, InfluxDB, RRD, Prometheus
SDN	OpenDaylight, Mininet.
Web Application	Django, React, WordPress.
DevOps	GitHub Actions, GCP, AWS, Nginx, Kubernetes (K3S), Docker, Linux.
NMS Development	Telemetry, SNMP, Syslog-ng, Telegraf, Grafana.
Networking device configuration (CLI)	Cisco, Huawei switch, routers & GPON. Service Provider network (MPLS, OSPF, BGP, VLAN, SD-WAN)
Version Control Tool	Git, GitHub
Agile tool	ClickUp

## Conference Talk

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### South Asian Network Operators Group Conference-39

9<sup>th</sup> May 2023

Presented Visualizing Telemetry with TIG - Deployment and Concepts

[Talk link](#)

## Education

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### B.Sc. Electronics & Communication Engineering

2014 - 2018

Khulna University of Engineering & Technology (KUET), Bangladesh.

Graduation date: 15 March 2018. CGPA: 3.10 Out of 4.0 (Last semester 3.67).

## Projects

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### Professional Projects:

**Network Topology** | React, Django, Express, NodeJS, PostgreSQL, LLDP, Python **Jan 2024**

- Developed a network topology visualization using LLDP and Python for data collection, Express for backend, and react for frontend.

[Project demo recorded](#)

**Network Automation & Alarm Monitoring** | Kafka, Django, Docker, PostgreSQL, Python **Jun 2022**

- Collected and stored SNMP traps using Python and Kafka.
- Gathered utilization and optics data from NMS into DB.
- Developed reporting and alarm dashboards for internal teams and NOC.
- Automated device configurations via a Django web tool.

[Project demo recorded](#)

**Syslog development** | 3 Months | PostgreSQL, PHP, SNMP **Jan 2021**

- Deployed Syslog-ng log storage system for different vendor network devices.
- This tool helps network personnel to troubleshoot events when issues occur.
- Developed a web app from where log data can be searched using device IP and log pattern.

[Project blog post link](#)

### Other Personal Projects:

**Game Hub** | React, TypeScript, Chakra Theme **Jan 2024**

- A react application developed for learning purpose

[Project live link](#), [GitHub](#)

**Linux namespace visualize packets** | NodeJs, Express **Aug 2023**

- Monitors real-time packet passing through a bridge linking two namespaces.

[Project link](#)

**Redis** / React, Node.js, Redis, MySQL **Jun 2023**

- Redis is used as both cache and PUB/SUB model to assign task to worker
- Client can create and get data using API.
- Full stack development with React frontend, Node.js backend, Redis caching, and MySQL database.

[Project Link](#)

## Training & Certification

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**Devops Career Track** | [poridhi.io](#) | 1 Year **Jan 2023**

AWS, GCP, Kubernetes, Docker, Terraform, CI/CD

**React 18 for Beginners** | **Mosh Hamedani** **Oct 2022**

Building web apps with React 18+ and TypeScript

**InfluxDB, Flux, Telegraf Basics** **Feb 2023**

[university.influxdata.com](https://university.influxdata.com)

Topics: Fundamentals of InfluxDB, Data Collection with Telegraf, Querying with Flux.

**Cisco Certified Network Associate Routing & Switching (CCNA)** **Feb 2020**

[Online Verification link](#) Score: 895 Out of 1000 Points.

## Language

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**English** | **TOEFL® iBT** **Sep 2022**

R-25, L-23, S-23, W-24 Total 95 out of 120.