

# Hadi Khan

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## TECHNICAL SKILLS

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**Languages:** Python, TypeScript/Javascript, Bash

**Libraries & Tools:** ExpressJS, Flask, React, Selenium, Postman, Git, Jira/Confluence

**DevOps & IaC:** GitHub Actions, Datadog, AWS, Cloudflare, Docker, Terraform, Ansible, Vagrant

## EXPERIENCE

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### Co Founder

Mar 2024 – Present

*Parhlai*

*Islamabad / Remote*

- Founded and scaled Parhlai from an incubated project to a funded startup; lead a team of 4 engineers.
- Grew product to 200+ weekly active users and achieved consistent engagement growth.
- As CTO, architected and developed the full backend, implemented async event-driven ML pipelines for MCQ generation and content moderation, and contributed to frontend features and deployments.
- Engineered and maintained a minimal-cost serverless infrastructure (AWS Lambda/Lambdalith, Cloudflare Workers, CloudFront/S3, Groq) with Terraform for multi-environment deployments; operational tech/infrastructure costs were 1% of total running costs while the majority of spend was on marketing and user acquisition.
- Automated CI/CD with GitHub Actions, managed project tracking via Jira/Confluence, and enforced access control with Firebase Auth and custom roles.
- Built an in-product chatbot using Cloudflare Workers, Groq (BYOK), Durable Objects, and Cloudflare KV to handle sessions, embeddings, and low-latency inference.
- Won multiple hackathons, competitions and grants while leading the team.

### Backend and DevOps Engineer

June 2021 – Present

*Syslify*

*UK, Remote*

- Built backends for two e-commerce platforms using TypeScript, Express, and MongoDB with Firebase JWT authentication.
- Implemented Firebase Custom Roles to power admin dashboards for data and user management.
- Published static React sites to CloudFront/S3 and deployed GKE services via Helm and GitLab CI.
- Containerized apps and created CI/CD pipelines with GitHub Actions for tests, builds, and automated deployments.
- Migrated legacy stacks to Terraform-based IaC, managing AWS, GCP, Cloudflare and GitHub infrastructure as code.
- Reduced CI costs 90% by running self-hosted GitHub runners on AWS Fargate and optimizing Docker layer caching.
- Implemented blue/green releases on ECS Fargate using CloudFormation, CodePipeline, and CodeDeploy.
- Implemented SSO using Microsoft Entra ID for the organisation and improved RBAC, CloudFront/WAF, and secret handling via GitHub Environments.
- Improved AWS Security Hub score from 60% to 80% for an organisation by remediating findings and tuning controls.
- Managed and tuned an OpenSearch cluster for production search workloads.
- Rightsized EC2 and other non-production instances, cutting costs by 70% while maintaining test fidelity.

### Assoc. Software Engineer

Nov 2023 – Sept 2024

*Vfairs*

*Lahore, Remote, Part time*

- Developed and improved 40+ job scrapers using Selenium and Scrapy, increasing data fetched by 50%.
- Configured and developed load tests for multiple applications using Artillery.io, K6, and Flood, simulating up to 10,000 users.

## PROJECTS

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**AWS WAF Manager** | *React, AWS, Bash, Github Actions*

- React (CF/S3) website to show and manage banned IPs via AWS WAF.

**Docker Services Status** | *HTML, Docker, Python, Flask, Bash*

- Dockerized flask application to monitor dockerized microservices in other servers.

## EDUCATION

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**National University of Science and Technology**

*Bachelor of Science in Computer Science*

Islamabad, Pakistan

*Aug. 2022 – May 2026*