

WAQAR AHMAD KHAN

SENIOR BACKEND ENGINEER

waqarbinmuhammad@gmail.com | +92 348 8421413 | linkedin.com/in/bhali16 | github.com/bhali16

PROFESSIONAL SUMMARY

Senior backend engineer and team lead who turns unfamiliar problems into working software quickly. Adapts to whatever stack a problem needs, prototypes rapidly, and uses AI tools with the judgment to catch and correct what they get wrong. 5+ years designing and shipping production platforms, including a transport booking system serving 10M+ users and subscription products with 100K+ mostly paying users, spanning international and local payment ecosystems. Leads teams, builds AI agents and internal tools that automate workflows and improve how engineers work, and is a published researcher in software testing.

- Backend Architecture
- Python, Django & DRF
- AI Agents & Automation
- Payment Integrations
- PostgreSQL & Redis
- Team Leadership
- Google Cloud (GCP)
- Docker & CI/CD
- AI-Assisted Development

PROFESSIONAL EXPERIENCE

Team Lead

Jan 2024 – Present

Phebsoft Pvt. Ltd. (Gitwork Ltd.)

Promoted from Senior Software Engineer (Dec 2022 – Jan 2024)

- Lead backend and web delivery for subscription and community platforms serving 100K+ users worldwide, most of them paying subscribers, with 99.9%+ uptime.
- Architect scalable backends across very different domains, adapting the design to each: a GPS golf scoring app with real-time multiplayer, subscription video streaming, and a community platform with events, chat and a marketplace.
- Own end-to-end payment, subscription and account-verification flows, integrating international payment providers and app-store billing.
- Design and run cloud infrastructure on Google Cloud, covering containerized deployments, automated CI/CD, managed databases, load balancing and background processing for async and real-time workloads.
- Build AI-powered products and agents: AI agents that automate business workflows, an interview automation platform using LLM-generated candidate insights that cut hiring time by 30%, and a social media analytics portal with sentiment analysis.
- Built an internal container-monitoring dashboard that gives developers scoped access to their own projects, removing the need to share server access across the team.
- Lead and mentor a cross-functional team, including mobile developers, and train engineers in AI-assisted development workflows.

Independent Contractor (Remote)

Jun 2026 – Present

AboveBytes, USA

- Building a React.js dashboard for a national e-government system in the Democratic Republic of the Congo.

PROFESSIONAL EXPERIENCE (CONTINUED)

Research Assistant (HEC-funded)

Jul 2021 – Jul 2022

Quaid-i-Azam University, Islamabad

- Researched Learning-Based Testing (LBT) for the MPhil thesis, improving model coverage through prime paths and other coverage criteria.
- Ran an empirical case study on LBT's debugging effectiveness and presented the results at ICET 2022 (IEEE).

Software Engineer

Feb 2020 – Mar 2021

Phebsoft Pvt. Ltd.

- Built a transport booking platform serving 10M+ users across 50+ districts, covering online booking, return ticketing, a loyalty program and internal operations tools.
- Integrated local mobile-wallet payment systems and built the transaction APIs behind them, plus partner integrations with Pakistan's leading online ticketing platforms.

TECHNICAL SKILLS

Backend	Python, Django, Django REST Framework, FastAPI, PHP, Laravel, REST API design, Celery, real-time features
Payments & Integrations	International and local payment gateways, mobile wallets, in-app subscriptions, SMS verification, push notifications, third-party APIs
Data	PostgreSQL, Cloud SQL, PgBouncer, Redis, NoSQL, query and performance tuning
Cloud & DevOps	Google Cloud (Compute Engine, Cloud Run, Cloud SQL, Cloud Storage, Artifact Registry, Load Balancing), AWS, Docker, Docker Compose, GitHub Actions CI/CD, Caddy, Linux
Frontend	JavaScript, React.js, Nuxt/Vue, Next.js
AI & Productivity	AI agent development for workflow automation, LLM APIs (OpenAI, Claude, Gemini), AI-assisted development (Claude Code, GitHub Copilot), internal developer tooling
Engineering Practice	Test-driven development, model-based testing, security-focused design, least-privilege access, code review, mentoring

EDUCATION

MPhil, Computer Science

Quaid-i-Azam University, Islamabad

Thesis: Model Coverage and Debugging Effectiveness of Learning-Based Testing

BS (Hons), Software Engineering

COMSATS University Islamabad

PUBLICATION

W. A. Khan and M. A. Sindhu, "Debugging Effectiveness of LBT: An Empirical Study," 2022 17th International Conference on Emerging Technologies (ICET), Swabi, Pakistan, 2022, pp. 136–141, doi: 10.1109/ICET56601.2022.10004661.

AWARDS & GRANTS

- **HEC Research Grant:** NRPU-9223, OMICoLT Project
- **NGIRI Funding:** National Technology Fund for undergraduate research