Hafiz Muhammad Furqan Azhar

Full-Stack Developer | Backend Focus

Lahore, Pakistan | +92 308 0320869 | a.furqan.dev@gmail.com
linkedin.com/in/furqanazhar-dev | github.com/969Furqan | furqanazhar.dev

PROFESSIONAL EXPERIENCE

Full Stack Developer (Contract)
May 2026 - Present

Contract Based Work

- Implemented Express APIs and Prisma/PostgreSQL models for accounts, company booths, job applications, coins, and user progression across different game dev projects.
- Added friendship and messaging endpoints, Socket.IO events, Redis-backed room presence, and room-capacity checks.
- Implemented a React-to-Unity launch-ticket bridge with session validation, readiness handling, renewal, and error states.
- Added Docker build stages, Prisma migration commands, automated tests, and OpenAPI documentation.
- Worked on client requirements, technical planning, and documentation.
- handled deployment and CI/CD pipelines for the backend and dashboard.

Backend Developer
Oct 2025 - Apr 2026

Zweidevs (Pvt) Ltd | Tranero

- Wrote Tranero's backend, covering account access, subscriptions, administrative APIs, and invoice-management workflows.
- Built invoice-management integrations with Odoo, QuickBooks, ERPNext, and Microsoft Dynamics.
- Integrated Tranero with the Nigerian NRS service and connected self-hosted Frappe Helpdesk for ticketing.
- Worked on client requirements, technical planning, and documentation.

Freelance Data Mining Specialist
Oct 2024 - Jan 2025

Remote

- Developed Scrapy and BeautifulSoup spiders for college and university websites, with URL-list inputs and site-specific content selectors.
- Saved source URLs and extracted text to files; included filename sanitisation, missing-page handling, and structured-output workflows.
- The public repository includes JSON-to-CSV conversion that checks JSON objects and expected field keys before writing rows.

Web Development Intern
Jul 2022 - Aug 2022

TechAbout Private Limited

- Supported frontend and backend development under senior developer guidance.

EDUCATION

Master of Science in Computer Science (In progress)
2025 - 2027

National University of Computer and Emerging Sciences (NUCES)

Bachelor of Science in Computer Science
2021 - 2025

COMSATS University Islamabad

Coursework: Data Structures & Algorithms, Operating Systems, Networks, Machine Learning, Web Technologies, Distributed Systems

CERTIFICATIONS

Crash Course on Python - Google (Coursera) | Nov 2025

Using Python to Interact with the OS - Google (Coursera) | Nov 2025

Understanding Prompt Engineering - DataCamp | Mar 2026

Writing in the Sciences - Stanford University | Mar 2026

AI Ethics - DataCamp | Apr 2026

FURQAN AZHAR

Technical expertise & selected projects

TECHNICAL SKILLS

Backend & API engineering	**Node.js, Express, Prisma, Django, Django REST Framework, FastAPI, Flask, Celery** REST endpoints, request validation, authentication, ORM models, API documentation, asynchronous file-processing tasks, and external invoice retrieval.
Invoice, compliance & support integrations	**Odoo, QuickBooks, ERPNext, Microsoft Dynamics, Nigerian NRS, Frappe Helpdesk** Invoice-management connectors for four business systems, integration with the Nigerian NRS service, and product ticketing through self-hosted Frappe Helpdesk.
Frontend & product engineering	**React, TypeScript, Next.js, TanStack Router, TanStack Query, TanStack Start, Tailwind CSS, Vite** Routed dashboards, asynchronous API state, responsive layouts, image-upload interfaces, editable floor-plan geometry, and a web-to-Unity launch-ticket bridge.
Databases & real-time systems	**PostgreSQL, Prisma, Django ORM, SQLAlchemy, Redis, Socket.IO** Relational application models, migrations, friendship and messaging data, socket events, room presence, and capacity checks.
Build & delivery tooling	**Docker, Git, GitHub, Prisma Migrations** Container build stages, dependency locks, database migration commands, and version-controlled application code.
Programming & algorithms	**Python, JavaScript, TypeScript** Task and job models, fixed-priority assignment, heap-based ready and delay queues, promotion events, scheduling traces, and file-processing scripts.
Computer vision & model integration	**PyTorch, Ultralytics YOLO, OpenCV, NumPy, scikit-image** Checkpoint loading and inference wrappers, line coordinates and confidence scores, image preprocessing, segmentation-mask contours, overlay encoding, and canvas geometry. Focus: application integration and inspectable outputs.
Data extraction & processing	**Scrapy, BeautifulSoup, Python csv/json, Gemini API** Site-specific selectors, URL-list crawling, source-text extraction, filename sanitisation, text-to-JSON examples, schema-key checks, and ordered CSV export. The ETL README credits an external pipeline source.
Verification & documentation	**Automated Tests, Playwright, OpenAPI, Technical Documentation** API and service test suites, browser layout checks, documented request/response contracts, source-linked case studies, and reproducible build commands.

SELECTED PROJECTS

Floor-plan Vectorization & Room Segmentation

Bachelor's FYP - Early 2025

Python, FastAPI, Flask, PyTorch, Ultralytics YOLO, OpenCV, React/TypeScript

FastAPI room-segmentation service and React canvas. A separate Flask/PyTorch inference wrapper returns line coordinates, confidence scores, and a rendered image.

github.com/969Furqan/floorplan-front-end-and-backend

Preference-Oriented Fixed-Priority Scheduler

Late 2025

Python, heapq, Fixed-Priority Scheduling, ASAP/ALAP Preferences

Python task models, RMS/PPA priority assignment, ready/delay queues, promotion events, and schedule traces, with a separate slack-management variant.

github.com/969Furqan/Preference-Oriented-Fixed-Priority-Scheduler

Web Extraction & Structured-output Pipelines

Oct 2024 - Jan 2025

Python, Scrapy, BeautifulSoup, csv/json

Site-specific Scrapy/BeautifulSoup spiders with source-text extraction. Included JSON/CSV examples check expected keys; the ETL README credits its external pipeline source.

github.com/969Furqan/scraping-work