Muhammad Ghulam Fakhar ud din

Full Stack Engineer · Python / AWS / SQL / ETL
Lahore, Pakistan (Open to Remote / Relocation)
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SKILLS

Languages: Python, JavaScript, Typescript, SQL
Databases: PostgreSQL, MySQL, MongoDB
Technologies: Django, DRF, Scrapy, Selenium, Puppeteer, Express, Angular, React.js
Tools: Celery, Redis, Datadog, ElasticSearch, Docker, Claude, Github Copilot, Git, GitHub
Project Management: JIRA, GitHub boards, Zenhub, Trello
Deployments & Infrastructure: AWS (EC2, ECS, SQS, SNS, CodePipeline, Lambda, Glue, Firehose, DynamoDb, RDS, EventBridge)
Methodologies: REST APIs, Agile/Scrum, TDD, Monolithic, Microservices, OAuth 2.0, Custom Authentication, Webhooks, Web scraping, Data ingestion, Cloudflare, Bot-Protection, Proxies, Event-driven programming
AI: Claude integration, AI Automations

SUMMARY

Full Stack Engineer with **6 years** of experience, excelled at **debugging production bugs**, building **scraping pipelines**, **ETL workflows**, and **cloud data infrastructure**. Experienced across both monolithic and microservices architectures, with a track record of **remote delivery** for teams in **Australia**, **USA**, and **Pakistan**.

WORK EXPERIENCE

Full Stack Engineer
Remote, New York, US
Union Realtime — *Aug 2025 - Present*

- Optimized Selenium-based **AWS ECS workers** runtime by **94% (15 hours → 1 hour)**, **reducing AWS cloud cost** by **75%**
- Architected an **end-to-end ETL data scraping pipeline** processing **500K+** records, daily. Increasing revenue by **8%**
- Identified, reported and fixed a **time-sensitive trends API** bug causing inconsistent data on production app. **Appreciated by the client** for the quick turn around time.
- Transformed raw XML outputs into **Parquet via AWS Glue**, cutting data query times by up to **60%** for downstream consumers
- Implemented **web archiving library**, and enabled across **100+** scraping scripts to capture screenshots and raw HTTP responses in compressed **WARC** files, **reducing storage costs** by **40%**
- Automated **log monitoring**, **issue identification** and **rectification**, enabling **self-healing scrapers** using Claude scheduler.
- Integrated **Anthropic LLM using API** for re-generating outdated xpaths for scraping scripts, **reduced admin workload by 90%**
- Added new **Claude skills** to **improve token-usage** by **25%** for unit tests across the organization
- Improved scrape success rate by **80%** for bot-protected websites by integrating **Cloudflare CAPTCHA bypass**, ZenRows IP rotation, and exponential backoff retries
- Built a **CloudWatch log aggregation system** surfacing stale/failed URLs in the admin dashboard with paginated API, reducing debugging turnaround time by **50%**
- Improved API response time by **60%** by adding **DB indexes** and correct **Django ORM** usage
- Implemented **RAW SQL queries** to optimize pricing API response time. **Improved loading speeds** by **15%**

Freelance Web Scraping Engineer
Remote, Ireland
Zyte — *March 2026 - Present*

- Developed and deployed **large-scale web crawlers** using Python, and Scrapy framework
- Built JS based, complex website scraping script via **Reverse engineering APIs** and Postman
- Managed **ETL & Automated data monitoring** processes using Python (Flask), and PostgreSQL

- **WebScraping Copilot Extension** based scrapy script generation
- Utilised **Zyte's API, and session management** to bypass **bot-protected** websites

Full Stack Engineer
Remote, Sydney, Australia
XREF *Aug 2023 - Aug 2025*

- Led integrations squad and weekly sprints.
- Handpicked by PM to independently lead **client-facing calls** for requirements gathering and troubleshooting, serving as the **team's primary client communicator**.
- Diagnosed and resolved **AWS ECS** infrastructural issues including task definition **misconfigurations, container health check failures, and service scaling bottlenecks**.
- Integrated new **async AWS Lambda** tasks using **SNS and SQS** queues to improve system **scalability and reliability**.
- Designed and developed **system integration** solutions for **SmartRecruiters, Ceridian, Bullhorn, HiBob**.
- Led SEEK integration development to streamline job posting functionalities for multiple ATS platforms.
- Wrote comprehensive unit tests, boosting code coverage to **80% across 3 repositories**, improving code reliability.
- Led code reviews and handled deployment pipelines, ensuring **smooth CI/CD processes** and **reducing bugs** in production.
- Resolved front-end bugs, improving user interface response time and overall user satisfaction.
- Identified and **optimized redundant API calls**, reducing system load and improving application **performance by 45%**.

Full Stack Engineer
Remote, Cambridge, USA
MIT *Feb 2023 - Aug 2023*

- Worked on an **open-source** platform based on **edX**, MIT xPro website using Django and PostgreSQL.
- Migrated **legacy data** to a new closed-source CMS system, **improving** platform **data integrity**.
- Monitored application logs via **Grafana**, identifying and filing JIRA bugs to improve platform stability.

Full Stack Engineer
Lahore, Pakistan
Arbisoft *Oct 2021 - Feb 2023*

- Developed a **full-stack web application** using Django and React.js, **leading development sprints**.
- Integrated **JIRA APIs with DRF** and React to **automate issue creation** and task management.
- **Optimized SQL queries**, improving database query **speeds by 30%** and data retrieval efficiency.
- Improved application **load speed by 85%** using Celery for task scheduling.

Software Engineer
Lahore, Pakistan
Arbisoft *Sep 2019 - Oct 2021*

- Developed Slack bot to automate team stand-up notes, improving meeting efficiency.
- **Integrated ETL processes** to load processed data into AWS S3, improving data pipeline automation.
- Wrote data ingestion scripts for several apparel brands, using **Scrapy and Selenium** for large-scale data collection.

CERTIFICATIONS

- AWS S3 - coursera.org
- Advanced React.js - scrimba.com
- Node.js: The Complete Guide to Build RESTful APIs - udemy.com
- Continuous Delivery & DevOps - coursera.org
- Docker for Absolute Beginner - kodeKloud.com
- SQL: The Complete SQL Masterclass - udemy.com
- **IELTS Academic – C1 Advanced** (Overall Band: 7.5)

EDUCATION

University of Central Punjab
Lahore, Pakistan
Bachelor's in Computer Science - CGPA 3.65 *2016 - 2020*