Jamshaid Ali

Jamshaidali937@gmail.com | +92-305-2394551 | Lahore, Pakistan
github.com/jamshaidali linkedin.com/in/jamshaidali-0449

Professional Summary

Full Stack Engineer with 6+ years of experience building scalable web applications with Python, Django, React.js and PostgreSQL on AWS, now building AI agents and Model Context Protocol (MCP) integrations for production products. Strong expertise in end-to-end product features, RESTful API design, database performance, and zero-downtime infrastructure upgrades, working closely with cross-functional teams in Agile environments.

Skills

Programming Languages: Python, JavaScript, TypeScript, PHP, Bash/Shell Scripting
Backend Frameworks: Django (with Django REST Framework), FastAPI, NestJS, Node.js
Frontend Frameworks: React, Vite, Next.js, HTML5, CSS3, Bootstrap
Databases: PostgreSQL, MySQL, MongoDB, BigQuery, Redis
Cloud & DevOps: AWS (EC2, RDS, SNS, SQS, DMS, IAM), Docker, Kubernetes, CI/CD (Argo CD, GitHub Actions), Terraform
AI & ML Integration: AI Agents, Model Context Protocol (MCP), RAG, LLM Integration (Claude, Gemini, ChatGPT), Prompt Engineering, NLP
Testing & Practices: Pytest, Jest, React Testing Library, TDD, Design Patterns, Microservices, Celery, Agile/Scrum, Code Reviews

Work Experience

OptimaGeeks Jun 2026 – Present
Senior Software Engineer Lahore, Pakistan

- Build AI agents, MCP servers, and Python backends for client products: an AI marketing platform, an agentic e-commerce store, a private on-premise AI appliance, and an AI fundraising agent.
- Design safe, action-taking agents with human approval steps, OAuth, strict tenant isolation, and prompt-injection defenses.
- **Key Technologies:** Python, MCP, LLMs (Claude, Gemini, ChatGPT), RAG, PostgreSQL, Docker, GitHub Actions

TechLeadz IT Solutions Oct 2021 – May 2026
Senior Software Engineer Lahore, Pakistan

- Built Shepherd, a full-stack campaign management platform for Mozilla Firefox Ad Ops, and led infrastructure and database upgrades for Apple Hub Services (see Projects).
- Consolidated 5 standalone databases into a single optimized RDS instance using AWS DMS, reducing operational costs by 40%.
- Built and maintained RESTful APIs and optimized PostgreSQL/MySQL queries for high-volume data.
- Wrote well-tested code with Pytest and React Testing Library, and performed code reviews for a team of 5+ developers.
- Worked with product, Ad Ops, and data teams in Agile sprints: planning, story-point estimation, backlog refinement, and retrospectives.
- **Key Technologies:** Python, Django, React.js, Node.js, PostgreSQL, MySQL, MongoDB, AWS, Kubernetes, Docker, BigQuery

Siteronics Solution Jan 2019 – Aug 2020
Web Developer Lahore, Pakistan

- Developed a doctor–patient consultancy system with secure communication and Twilio audio/video calls.
- Built backend APIs using PHP and JavaScript.

Coding Campus Jul 2017 – Nov 2017
Intern + Web Developer Lahore, Pakistan

- Built PHP admin panels and managed MySQL databases, including schema design and optimization.

Projects

AI Marketing & Business Operations Platform Python, MCP, OAuth, LLMs

- Built an action-taking AI assistant that creates campaigns and articles, with confirmation cards before it publishes or spends credits; added business memory, voice notes, and daily summaries.
- Built an MCP server with OAuth login so external AI tools like Claude can connect to a user's business account safely.
- Built AI article generation with SEO scoring and one-click CMS publishing, bulk email/SMS, and subscription billing, with isolated tenant data and prompt-injection defenses.

Agentic E-Commerce Platform & AI Discovery Engine MCP, PostgreSQL, Mailgun

- Built an MCP server that lets AI assistants (ChatGPT, Claude, Gemini) register users, check status, and browse the product catalog.
- Made the site AI-readable with llms.txt, Markdown page versions, JSON-LD structured data, and IndexNow indexing.
- Built the API with PostgreSQL migrations, rate limiting, disposable-email blocking, a Mailgun email outbox, privacy-compliant deletion, and end-to-end tests in GitHub Actions.

TripleX — Private AI Appliance & POS Device Management LLMs, RAG, MCP, AMAPI

- Built a fully on-premise AI assistant that answers questions across 150+ legal contracts with exact source citations, with MCP access to an internal database and a Telegram agent for daily digests.
- Built a backend to manage A10 POS terminals remotely with Google's Android Management API: kiosk lockdown, remote lock, reboot, confirmed wipe, and QR enrollment.
- Added live device status polling, command history, constant-time API key validation, and automated test suites.

AI Fundraising Agent (ClickUp + MCP) ClickUp, MCP, Coresignal, LLMs

- Built an AI agent that finds investors, keeps a 170-investor CRM up to date, prepares investor briefs, and drafts outreach emails.
- Designed human-in-the-loop writes: duplicate checks, a preview with the source of every field, and saves only after user approval.
- Connected ClickUp, web search, and the Coresignal MCP server with opt-in paid lookups and usage caps; added email-to-task intake and English/Italian replies.

Shepherd (Mozilla Firefox Internal tool) Python, Django, React (Vite)

- Replaced error-prone spreadsheet workflows with a centralized campaign management platform, improving data accuracy by 90%.
- Built campaign, line item, advertiser, and inventory modules with Django APIs and React UI components, owning the full lifecycle from architecture to rollout.
- Integrated BigQuery analytics and Boostr CRM to automate ad-revenue reporting with 100% data integrity, replacing manual reconciliation.
- Optimized database views, queries, and backend logic, cutting data-processing delays from 5 minutes to under 30 seconds.

Apple — Hub Services Deployments & Infrastructure AWS, Kubernetes, RDS

- Led AL2023 operating system upgrades across 8+ Kubernetes clusters, improving performance benchmarks by 35% and achieving SOC 2 security compliance.
- Upgraded RDS PostgreSQL from v12 to v17 with zero downtime using blue-green deployment strategies.
- Upgraded container packages within Kubernetes pods to resolve high-risk security vulnerabilities.

DJ/Event Management System eventvibe.com

- Built email automation, Instagram tracking, and event workflows with Node.js, React.js, Docker, and MySQL, using AWS SNS/SQS for bulk messaging.

Flying Languages flyinglanguages.com

- Built an NLP-based language practice platform with Django and Vue.js, using AWS Polly and Transcribe for speech processing.

Doctors For Health doctorsforhealth.co.uk

- Built a telehealth appointment management system using PHP CodeIgniter.

Education

Govt College University, Lahore 2014–2018
BS (Hons.) Computer Science

Alpine College of Sciences 2012–2014
ICS (Bahawalpur Board)