MUHAMMAD SAAD

Senior Full-Stack Engineer | SaaS & Cloud Solutions Architect

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer and SaaS architect with 10+ years designing, building, and shipping production web platforms across the U.S. and Europe — real estate, recruitment, fintech networking, e-signature, cybersecurity, and agentic AI. Owns the full lifecycle from system design and database modeling to API development, cloud deployment, and release management. Most recently led cross-functional engineering (frontend, backend, AI infrastructure) for an autonomous-agent platform at SimmingAI, architecting real-time, event-driven systems with WebSockets, Redis caching, and third-party communication channels. AWS-trained in cloud architecture and development; former Google Developer Student Clubs Technical Lead. Known for independently delivering complete platforms from a blank repository to production.

CORE COMPETENCIES

- Full-Stack Architecture
- SaaS & Multi-Tenant Design
- Agentic AI & LLM Integration
- Laravel / PHP · React · Next.js · Node.js
- REST APIs · WebSockets · Event-Driven
- Application & Network Security
- AWS · Docker · Nginx · CI/CD
- MySQL · PostgreSQL · Redis
- Technical Leadership · Agile

PROFESSIONAL EXPERIENCE

Build Manager (Engineering Lead) — 2024 – 2026

SimmingAI (Growthrune) — Agentic AI Platform | South Bay, FL (Remote)

- Led cross-functional engineering across frontend, backend, and AI infrastructure for an agentic AI platform of customizable autonomous agents, each with distinct personality, voice, and virtual avatar.
- Architected the integration layer between LLM/AI services, backend APIs, and client applications, enabling real-time agent conversations, autonomous social activity, and outbound communication over WhatsApp and SIM-based telephony.
- Designed a low-latency, high-throughput data path using event-driven architecture, WebSockets, real-time event streaming, and multi-layer caching to keep agent interactions responsive at scale.
- Owned development workflow, system integration, CI/CD deployment pipelines, and release management across multiple engineering teams; established code-review and branching standards.

Full-Stack Engineer — 2021 – 2024

Sil4Systems (IDPS) — Cybersecurity Appliances | Pittsburgh, PA

- Designed and built the management plane for a hardware-integrated Intrusion Detection & Prevention System (IDPS) — full-stack interfaces and backend services bridging security software with physical network appliances.
- Delivered firewall configuration, live security-monitoring, and system-administration consoles, backed by API integrations and data-processing pipelines for high-volume network telemetry.
- Worked at the hardware–software boundary (network protocols, embedded firewall firmware, security infrastructure) to ensure reliable, auditable control of production security devices.

Full-Stack Engineer (Sole Architect) — 2019 – 2021

BlueNest — Real Estate Management SaaS | South Bay, FL

- Independently architected and built a complete real estate management platform from the ground up: property listings, portfolio administration, and operational workflows.
- Engineered automated property-appraisal and Comparative Market Analysis (CMA) reporting modules that turned manual valuation work into on-demand, data-driven reports.
- Built scalable backend services, RESTful APIs, and interactive dashboards for property data, reporting, and day-to-day business operations.

Full-Stack Engineer (Sole Architect) — 2018 – 2020

SatisEmp — Intelligent Recruitment Platform | Germany (Remote)

- Architected and built an end-to-end recruitment platform with skill-based job matching and personalized employment recommendations.
- Developed matching algorithms that score candidate skill profiles against job requirements, automating discovery of relevant opportunities for both sides of the marketplace.

- Shipped the complete product: job management, candidate profiles, backend APIs, and responsive application interfaces.

Full-Stack Engineer (Sole Architect) **2016 – 2018**

Transformare — Organizational Management Platform | San Francisco, CA (Remote)

- Solely designed and delivered a centralized platform for project management, team collaboration, and operational workflows.
- Designed the relational data model and REST API layer for organizational hierarchies, projects, tasks, and team activity; built responsive management dashboards for resource coordination and cross-team tracking.

Full-Stack Engineer (Sole Architect) **2015 – 2017**

SignNTrack — Digital Contract & E-Signature Platform | Switzerland (Remote)

- Independently built a secure multi-party contract management and electronic-signature platform covering contract creation, signing, status tracking, and tamper-evident digital record management.
- Implemented authentication, role-based access control, and server-side validation to guarantee document integrity and data confidentiality.

Senior Frontend Developer **2014 – 2016**

MyKlad — Investor Networking Platform | Limoges, France (Remote)

- Developed an Instagram-style investment networking product connecting entrepreneurs with investors — startup pitching, investment discovery, and patent-backed innovation showcases.
- Built a responsive, component-driven frontend with dynamic content feeds, interactive profiles, and seamless navigation focused on engagement and usability.

TECHNICAL SKILLS

Languages & Frameworks: JavaScript, TypeScript, PHP, Python, Laravel, React.js, Next.js, Vue.js, Node.js, Express.js

Backend & APIs: RESTful API design, WebSockets, authentication & authorization (OAuth/JWT), background jobs, queue management, third-party integrations

Cloud & DevOps: AWS (EC2, S3, RDS, IAM), Docker, Linux, Nginx, CI/CD, GitHub Actions, cloud infrastructure management

Data & Caching: MySQL, PostgreSQL, Redis, schema design, query optimization, caching strategies

Architecture: SaaS & multi-tenant architecture, distributed systems, event-driven architecture, real-time systems, scalability & performance tuning

AI & Security: Agentic AI, LLM integration, application security, IDPS, network security, hardware–software integration

Leadership: Technical leadership, system design, code reviews, Agile/Scrum, cross-functional collaboration, release management

EDUCATION

B.S. Computer Science Bahria University, Islamabad

CERTIFICATIONS & CREDENTIALS

Credential	Issuer	Issued
AWS Academy Cloud Architecting	Amazon Web Services	Dec 2023
AWS Academy Cloud Developing	Amazon Web Services	Jul 2023
Technical Lead — Google Developer Student Clubs 2023	Google Developer Group on Campus, Bahria University	Nov 2024
Python Data Structures	University of Michigan (Coursera)	Mar 2023
Programming for Everybody (Getting Started with Python)	University of Michigan (Coursera)	Dec 2022
JavaScript Algorithms and Data Structures	freeCodeCamp	Apr 2022
Responsive Web Design	freeCodeCamp	Jan 2021
Programming Foundations: Fundamentals	LinkedIn Learning	Nov 2022
Fundamentals of Digital Marketing	Google Digital Garage	Nov 2022
Website Development Challenge — Certificate of Achievement	NaSCon (National Software Competition)	Mar 2023
MATLAB	MathWorks	Apr 2021
Computer Science / Information Technology	LOGIX College	Feb 2010

LEADERSHIP & COMMUNITY

- **Technical Lead, Google Developer Student Clubs (2023) —** Led the technical track of Google's on-campus developer community at Bahria University — workshops, mentoring, and hands-on web/cloud projects.
- **NaSCon Website Development Challenge (2023) —** Certificate of Achievement at Pakistan's national software competition.