

HASNAT SAJID

Senior Software Engineer | AI, Backend & Cloud

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PROFESSIONAL SUMMARY

Senior Software Engineer with 7+ years of experience building production SaaS, backend, cloud, and automation systems across real estate, manufacturing, diagnostics, and business operations. Strong in Go, Python, TypeScript, PostgreSQL, AWS/GCP, Docker, and Kubernetes, with hands-on experience designing multi-tenant platforms, business-critical APIs, workflow automation, and distributed systems. Experienced in integrating AI/LLM capabilities into software products and operational workflows, including AI-powered analytics and automated documentation. Comfortable owning systems end-to-end from architecture and implementation through deployment and production operations.

CORE SKILLS

Languages: Golang, Python, TypeScript, JavaScript

AI / LLM: LLM Applications, Agentic AI, RAG, Embeddings, Vector Search, Prompt Engineering, OpenAI API, Anthropic API, AI Workflow Automation

Backend: Go, Node.js, Express, NestJS, REST APIs, GraphQL, gRPC, WebSockets, OpenAPI, OAuth 2.0, JWT, RBAC, Multi-Tenant Architecture

Frontend: React, Next.js, HTMX, HTML, CSS, Redux

Cloud & Infrastructure: AWS, GCP, Docker, Kubernetes, Helm, Terraform, GitHub Actions, Nginx, Linux, Bash, CI/CD

Databases / Messaging: PostgreSQL, MySQL, MongoDB, Kafka, RabbitMQ, Redis

Engineering: Distributed Systems, System Design, Microservices, CI/CD, Unit Testing, Integration Testing, Observability

WORK EXPERIENCE

Software Engineer — *Circumz.com*

Oct 2025 – Present

- Built a full-stack residential real estate platform for independent agents and small-to-medium agencies, covering property management, listings, lead capture, marketing workflows, and business operations.
- Designed and implemented backend services in Go with PostgreSQL, authentication, RBAC, multi-user workflows, and modular business logic.
- Developed a centralized listing workflow that allows property information to serve as a single source of truth across public listings and marketing workflows.
- Integrated AI-powered workflows for generating property descriptions and marketing content, alongside automated listing and lead-management processes.
- Owned product development across architecture, backend implementation, frontend functionality, deployment, and production operations.

Senior Software Engineer — *Operational Software (operationalsoftware.co)*

Feb 2025 – May 2026

- Developed and maintained production software for an enterprise manufacturing platform built with Go, delivering end-to-end modules across manufacturing operations and business workflows.
- Built and enhanced cloud file storage management, Production Monitoring and Andon systems, QR-code generation, PDF generation and printing, production batch management, work-order analytics, and resource servicing workflows.
- Played a major role in migrating the platform's legacy TypeScript codebase to Go, contributing to improved performance, scalability, and long-term maintainability.
- Designed and implemented backend services, business logic, data workflows, and production-ready functionality across multiple areas of the platform.
- Contributed to AI-powered analytics and automated documentation features designed to improve operational reporting and reduce manual work.

- Worked closely with stakeholders to translate manufacturing requirements into reliable production software.

Lead Software Engineer — *R3 Diagnostics (recheck360.com)*

Oct 2024 – May 2025

- Designed and built the company's core diagnostic platform for the used-device industry using Go and PostgreSQL.
- Architected a multi-tenant platform supporting organizations, facilities, stations, teams, users, roles, permissions, vendors, operators, and operational workflows.
- Designed and implemented business-critical modules covering device lifecycle management, diagnostics, data erasure, invoicing, transactions, licensing, notifications, parts, labeling, grading, and application configuration.
- Developed backend services, database schemas, business logic, and APIs supporting device-processing and operational workflows across multiple organizations.
- Integrated hardware-oriented functionality including port mapping, device processing workflows, label generation, and diagnostic operations.
- Took ownership of core architecture and implementation decisions with a focus on scalability, maintainability, and reliable multi-tenant operation.

Software Engineer — *Accez (accez.cloud)*

Nov 2024 – Mar 2025

- Developed and maintained features for an enterprise cloud-based property management platform serving property managers, residents, and service providers.
- Built and enhanced core modules for unit management, service management, work orders, and service operations.
- Developed the company portal supporting property management workflows and operational activities.
- Built and maintained the resident portal, enabling residents to manage profiles, access property information, and submit service requests.
- Designed and integrated backend APIs and database functionality supporting core platform workflows and business operations.
- Worked with stakeholders to translate property-management requirements into scalable and maintainable software solutions.

Full-Stack Developer & Linux System Administrator — *EveryListing.com*

Jun 2020 – Nov 2024

- Developed and maintained a large-scale real estate aggregation platform that crawled and processed property listings from real estate websites across global markets.
- Developed custom JavaScript crawling scripts integrated with a proprietary Java crawling engine to automate property-data extraction and listing synchronization.
- Designed and maintained server-side infrastructure supporting production crawling, data processing, application services, and database operations.
- Automated infrastructure operations including backups, process monitoring, service recovery, automatic restarts, and operational maintenance across production servers.
- Built automated database backup and archival workflows with secure Google Drive cloud-storage integration for backup retention and disaster recovery.
- Improved crawler reliability, server operations, and data-management workflows to support the stability and maintainability of the platform.

Linux System Administrator & WordPress Developer — *AMCO IT Systems*

Nov 2019 – Jun 2020

- Managed Linux infrastructure hosting production WordPress websites, including server configuration, deployment, maintenance, and troubleshooting.
- Implemented automated backups, log rotation, monitoring, recovery procedures, and security hardening to improve system reliability and operational resilience.
- Performed ongoing Linux administration, security updates, incident response, and production troubleshooting.

EDUCATION

Bachelor of Science, Computer Science

University of Engineering and Technology, Lahore | 2015 – 2019