

Mohammed Sazid Al Rashid

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Professional Summary

Systems-oriented Technical Lead with 8+ years of experience building high-performance platforms, agentic AI systems, scalable infrastructure, and ground-up systems/developer tools in Rust and Go. Architected ZeuZ's AI-powered codebase analyzer and agentic development workflows, cut operations cost by reducing system CPU usage by 93%, enabled 4000+ daily test deployments, and led scalability initiatives spanning S3-compatible object storage and Kubernetes/k3s planning. Strong focus on reliability, security, and deep systems engineering.

Technical Proficiencies

Core Technologies: Python, TypeScript, Go, Rust, Zig, SQL, Java, React, Django, Nodejs/Express, Docker, PostgreSQL, Redis

Cloud & Infrastructure: AWS (EC2, S3), S3-compatible Object Storage, Kubernetes/k3s, Google Cloud (Big-Query), Nginx, CI/CD, GitHub Actions, Ansible/Bash, GraphQL, WebSocket

AI & Agentic Systems: LLM Orchestration, OpenAI, Claude Agent SDK, OpenAI Codex SDK, OpenCode, Agentic Code Review, Agentic CLI Tooling, Human-in-the-loop Automation, LangChain

Experience

Technical Lead, Automation Solutionz – Remote, Canada Mar 2023 – present

- Cut down costs by engineering a [scalable test deployment architecture](#), achieving 93% CPU reduction and 4000+ daily deployments through Redis-based distributed queuing.
- Architected and launched ZeuZ's AI-powered Codebase Analyzer microservice, enabling repository analysis, artifact scanning, agentic implementation, and multi-provider LLM orchestration across Claude Agent SDK, OpenAI Codex SDK, and OpenCode.
- Built agentic development workflows with worktree isolation, human-in-the-loop feedback, diff/commit review, PR creation, persona-based AI review, and apply/reject/continue flows for developer productivity.
- Productionized AI services with Docker/GHCR CI builds, analyzer service routing in Docker Compose, base-branch selection, AI Jobs administration, SQL migrations, structured logging, and OpenTelemetry tracing.
- Spearheading the idea, planning, and team-led development of an S3-compatible object storage migration away from single-host disk storage, guiding the move toward shared uploads and preparing ZeuZ for horizontal scaling and k3s/Kubernetes multi-machine deployments.
- Implemented secure authentication system using PASETO tokens, fixing 33 vulnerabilities with 10x-30x performance improvement.

Software Engineer, Automation Solutionz – Remote, Canada Sept 2020 – Mar 2023

- Transformed monolithic system into microservices architecture and reduced deployment times by 75% through Docker containerization and parallel deployment strategies.
- Engineered real-time performance monitoring using BigQuery and Looker Studio for major telecom client. [Dashboard sample without identity](#).
- Implemented platform's first authentication layer and real-time log streaming system using Rust/WebSocket.

Jr. Software Engineer (part time), Automation Solutionz – Remote, Canada

Jan 2017 – Sept 2020

- Reduced frontend load size by 78% and cut report/log processing time by 90% for 500+ test cases through resource optimization and batch processing.
- Upgraded [Django from 1.8.2 to 3.1](#), resolving 100+ vulnerabilities in one day.

Projects

BitCode (Go, LLM Providers, Agent Tools, Terminal UI)

[github/bitcode](#)

- Built a Go agentic coding CLI similar to Codex/Claude Code with TUI/single-shot modes, multi-provider LLM backends, file/shell/web/todo/skill tools, resumable conversations, subagents, context compaction, telemetry, system reminders, and LLM-backed tool guards.

Redis-compatible Server (Rust, mio, RESP, AOF)

[github/redis](#)

- Built a Redis-compatible server from scratch in Rust with a single-threaded mio event loop, per-client buffers, RESP2 parser/encoder, command pipelining, and Redis-style commands.
- Implemented storage internals including binary-safe values, lazy/active TTL expiry, memory accounting, AOF append/replay, and maxmemory eviction policies including Sieve.

Lorust (Rust, Tokio, RustPython, TOML)

[github/lorust](#)

- Built a Rust/Tokio HTTP load tester with rate/duration modes, TOML/RustPython flows, latency/error thresholds, structured metrics, and distributed worker/supervisor groundwork.

Proglog (Go, gRPC)

[github/proglog](#)

- Implemented a distributed commit-log service modeled on Kafka internals, with gRPC APIs and append/read semantics.

Shell in Zig (Zig, POSIX Shell, Manual Memory Management)

CodeCrafters 2026

- Side project implementing POSIX shell stages with builtin/external command execution, PATH lookup, cd support, and per-command arena allocation.

Education

American International University Bangladesh, BSc in Computer Science and Software Engineering

2017 – 2021

- CGPA: 3.9/4.0 ([Certificate](#), [Scholarship](#))