

Md. Hanifur Rahman

SYSTEMS-FOCUSED FULL-STACK ENGINEER

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SUMMARY

I build data-heavy systems that stay reliable under real-world constraints. Over 7+ years I've worked across Ruby, Go, Python, and PHP — building distributed pipelines, large-scale PostgreSQL systems, real-time dashboards, and AI-driven analysis tools. I focus on systems that operate predictably at scale under high data volume, API limitations, and concurrent updates.

TECHNICAL SKILLS

BACKEND & DATA: Ruby on Rails, Go, Python, PostgreSQL, Redis, MongoDB, Snowflake, DynamoDB, OpenSearch, PHP

DISTRIBUTED SYSTEMS & INFRA: Sidekiq, SQS, SNS, Kinesis Firehose, Shoryuken, ECS Fargate, Lambda, Terraform, Docker, AWS

FRONTEND & INTERFACES: Hotwire, Turbo, Stimulus, Vue.js, Tailwind CSS, Highcharts, ActionCable, WebSockets

AI & AUTOMATION: Claude API, OpenAI, LangChain, prompt design, routing systems, guardrails, report generation (PPTX, XLSX)

PROFESSIONAL EXPERIENCE

Lead Developer & Systems Architect

Jul 2023 – Present

Advertising SaaS Platform (Remote Contract)

- Architected and built a production advertising platform backed by a **239 GB PostgreSQL** database processing **120M+ bid changes**, **60M+ keyword metrics**, and **43M+ event stream records**
- Removed the need for daily manual bid management by building a rules-based automation system with custom formula evaluation, managing **4,300+ rules** and **104K+ automated executions**
- Enabled same-day bid optimization by replacing delayed batch reports with real-time SQS ingestion pipelines
- Reduced dashboard load times from timeout to sub-second by engineering **25+ materialized views** with zero-downtime refresh over 60M+ rows
- Eliminated silent bid drift caused by concurrent systems by designing a two-column state machine with row-level locking

FULL-STACK SYSTEM WORK

- Built the complete frontend architecture with **100+ Stimulus controllers** covering dashboards, rule configuration, scheduling, bulk actions, and real-time reporting
- Developed a data visualization layer covering ACOS trends, economics P&L, budget pacing, and campaign performance — with dark mode, date comparison, and live data refresh
- Built real-time interfaces for AI chat streaming, notifications, execution tracking, and live cache updates using ActionCable and WebSockets
- Designed a formula builder with expression parsing, undo/redo, a visual token system, and real-time bid preview
- Built an AI analyst with Guard/Router/Responder pipeline, generating PPTX, XLSX, and HTML reports with streaming responses

Software Engineer

Sep 2019 – Jul 2023

Pattern — E-Commerce Intelligence Platform

- Built **10 data collectors** across Go, Ruby, and Python for buybox tracking, SERP rankings, inventory, reviews, and prices
- Designed event-driven pipelines with SQS (FIFO), SNS, and Kinesis Firehose for high-throughput ingestion into S3 and Snowflake
- Developed a market share analytics system (Rails + Snowflake) running **5 concurrent pipelines** from every 5 minutes to weekly
- Authored **4 Terraform projects** provisioning ECS Fargate (blue/green), Lambda, RDS Aurora, ElastiCache, and DynamoDB

FULL-STACK CONTRIBUTIONS

- Built **26 Vue.js components** including AG Grid with server-side infinite scroll and interactive chart dashboards
- Developed a Chrome extension (Manifest v3) with content scripts, background service worker, and serverless Lambda backend
- Built reporting dashboards and data visualization tools powered by large-scale data pipelines

Junior Software Engineer

Dec 2018 – Sep 2019

Early Career — PHP, Laravel, Vue.js

- Built web applications, dashboards, and reporting tools using Laravel and Vue.js
- Developed API integrations and background processing workflows
- Handled production debugging, data inconsistencies, and infrastructure setup

EDUCATION

B.Sc. in Computer Science and Engineering

2015 – 2019

Bangladesh University of Business and Technology