

HASSAN RAZA

Sunnyvale, CA 94085 · 669-832-7275

hassanraza632@gmail.com · [linkedin.com/in/autodidactguy](https://www.linkedin.com/in/autodidactguy) · hassanraza.us

Senior Software Engineer | Distributed Systems | FinTech and AI

Senior Software Engineer with 8+ years of experience building high-scale distributed systems in fintech and AI platforms. Designed backend systems supporting **\$1B+** annual transactions across payment and data platforms. Expertise in event-driven architectures, ETL pipelines, AWS infrastructure, and multi-tenant systems. Experience includes ERP and marketplace platforms across multiple domains.

Languages & Technologies: TypeScript, JavaScript, Java, Kotlin, Node.js (NestJS), Spring Boot, React, Next.js

Architecture & Systems: Distributed systems, event-driven, microservices, multi-tenant, ETL/data pipelines

Cloud & Infrastructure: AWS, Terraform, AWS CDK, Docker, Kubernetes

Data & Streaming: MongoDB, PostgreSQL, MySQL, DynamoDB, Redis, Kinesis

Messaging Systems: BullMQ, RabbitMQ, Kafka, SQS

PROFESSIONAL EXPERIENCE

Overflow App Inc — Senior Software Engineer | Apr, 2024 - Present

- Led development of payment infrastructure enabling digital cash/stock/crypto, increasing digital donation adoption by **20–40%** across **~1000** organizations.
- Processed and migrated **20M+** donor and transaction records, improving ingestion throughput by **5-10x** through distributed ETL pipelines and reduced data processing latency by **50%** using queue-based and event-driven architectures.
- Implemented AI-powered analytics using natural language query systems, reducing manual reporting effort by **40–60%**.
- Improved system reliability to **99.9%+** availability through fault-tolerant job orchestration and retry mechanisms.

Technologies: *TypeScript, Node.js (NestJS), React, Next.js, MongoDB, PostgreSQL, Redis, BullMQ, AWS (Lambda, ECS/Fargate, SQS, S3, CloudWatch), Terraform*

Scale AI Inc — Software Engineer — Gen AI | Feb, 2024 – Apr, 2024

- Evaluated and refined **1000+** LLM-generated code samples, improving correctness and usability metrics.
- Reduced model output errors by **20–30%** through structured evaluation workflows.
- Contributed to improving developer productivity in AI-assisted workflows by **15–25%**.

Technologies: *Java, Kotlin, TypeScript, Node.js, React, REST APIs, GitHub*

Amazon.com Inc — Software Development Engineer II | May, 2023 – Jan, 2023

- Delivered backend services supporting hiring workflows for **~1.5M** users globally across multi-region systems.
- Implemented event-driven pipelines processing **millions** of events daily using AWS (Lambda, SQS, Kinesis).
- Reduced system latency by **25–30%** through optimized service communication and data flows.
- Improved system reliability and deployment success rates by **30–40%** through infrastructure and monitoring enhancements.

Technologies: *Java, TypeScript, Node.js, Spring Boot, React, DynamoDB, PostgreSQL, AWS (Lambda, SQS, Kinesis, EC2, S3, RDS, API Gateway, CloudWatch), AWS CDK*

ThinkGeniux — Full Stack Developer | Oct, 2018 – Jul, 2022

- Delivered ERP, SaaS, and marketplace platforms serving **1000s** of users and transactions daily.
- Integrated payment systems (Stripe, PayPal) achieving **99%+** transaction success rates.
- Reduced development cycle time by **25–35%** through modular architecture and reusable components.

Technologies: *Java (Spring Boot), TypeScript/JavaScript (Node.js/Express.js, React, Angular), PHP (Laravel), MySQL, PostgreSQL, MongoDB, DynamoDB, AWS, REST APIs*

Metologix — Web Application Developer | Aug, 2016 – Sep, 2018

- Developed web applications supporting internal operations used by **100+** users.

Technologies: *PHP (Laravel), JavaScript, MySQL, AWS, HTML/CSS*

EDUCATION

Master of Science in Computer Science — (2022 - 2024)

Maharishi International University, Fairfield, Iowa

Bachelor of Science in Computer Science — (2015 - 2019)

The University of Lahore, Punjab, Pakistan