HIRENKUMAR THAKORE

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SUMMARY

Senior Software Engineer with 8+ years of experience building **scalable, event-driven microservices** and **SaaS platforms**. Expert in **AWS serverless architecture**, backend development with **Python**, **CI/CD automation**, **observability**, and secure API design, with a public body of work in **AI agent infrastructure**: agent evals, LLM cost and latency tooling, MCP tool execution. Proven track record of improving system performance, reducing cloud costs, and mentoring engineering teams.

EDUCATION

Master of Science in Computer Engineering
University of Windsor (Canada)

Bachelor of Computer Science and Engineering
Gujarat Technological University (India) | AWS Certified Developer – Associate

SKILLS

Languages : **Python (8+ years)** | **ReactJS** (4+ years) | **JavaScript** (5+ years) | SQL (6+ years)
Technologies: **Amazon Web Services (6+ years)** | MySQL/NoSQL/ GraphQL| Git | Docker | Event-driven Architecture | Infrastructure as Code (Terraform/CloudFormation)
AI & Agents: **LLM agent evaluation** | **MCP (Model Context Protocol) servers** | LLM observability | Cost and latency benchmarking | Tool-execution layers with permission boundaries | Human-in-the-loop controls
Soft Skills : Effective communication | Problem-solving | Critical thinking | Teamwork | Attention to detail

PROFESSIONAL EXPERIENCE

Senior Software Developer - *Evertz Microsystems* **June 2025 – Current**

- Architecting **serverless microservices** using **AWS Lambda, DynamoDB, API Gateway, and EventBridge**, enabling highly scalable and event-driven backend systems.
- Designing and implementing **REST and Protobuf APIs** for enterprise SaaS solutions, focusing on **performance, scalability, security, and observability**.
- Leveraging **OpenTelemetry** and structured logging to improve **distributed tracing, incident response, and system reliability** across production environments.
- Driving **CI/CD automation pipelines** with **Jenkins**, **AWS CodePipeline**, and **Docker containerization**, integrating unit, integration, and contract testing to ensure high deployment confidence.
- Partnering with frontend (React), QA, and SRE teams to deliver robust features, while mentoring engineers and performing code reviews to uphold engineering best practices.

Senior Software Engineer - *eHouse Studio* **July 2024 – June 2025**

- Led **system architecture and design** of scalable **microservices**, reducing API response times by **40%** and significantly improving system throughput.
- Developed a **distributed event-driven architecture** using **AWS SQS, Lambda, and SNS**, enabling **real-time data streaming and processing** across multiple e-commerce platforms.
- Engineered **high-performance backend services** in **Python (FastAPI, asyncio)**, optimizing **data pipelines** and reducing processing latency for **real-time analytics**.
- Implemented **OAuth2 authentication** and **role-based access control (RBAC)** to strengthen security posture and ensure compliance with industry standards.
- Spearheaded **cross-functional collaboration** with product, design, and QA teams, aligning technical roadmaps with business objectives and ensuring smooth feature delivery.
- Drove **cloud cost optimization initiatives**, leveraging **auto-scaling, spot instances, and resource lifecycle policies**, reducing **AWS expenses by 30%**.
- Mentored junior developers through **technical workshops, pair programming, and code reviews**, fostering a culture of **engineering excellence and knowledge sharing**.

Software Engineer - *VL OMNI (acquired by eHouse Studio)* **June 2019 – July 2024**

- Built and maintained **Python- and ReactJS-based REST API integrations**, enabling seamless data exchange between enterprise systems and third-party platforms.
- Developed **Amazon Seller Central** and **Shopify connectors** to automate daily order transactions, increasing **customer retention by 20%** and generating **$1M+ in revenue**.
- Engineered a **real-time inventory tracking engine** using **GraphQL and DynamoDB**, order fulfillment workflows with **AWS SQS**, and a **notification system** using **AWS SNS/SES**.
- Led complex **integration projects with Microsoft Business Dynamics/NAV**, including requirements gathering, solution design, code development, testing, and deployment via **AWS CodeDeploy**.
- Designed and deployed **scalable, highly available cloud infrastructure** on **AWS (EC2, S3, Lambda)**, improving application performance and supporting **millions of user transactions**.

OPEN-SOURCE PROJECTS

- **agent-tally**: agent evaluation tool scoring runs against explicit checks and production traces, not benchmark vibes. github.com/thakoreh/agent-tally
- **llm-speedtest-mcp**: MCP server benchmarking LLM providers on latency and cost inside the agent workflow, for routing and provider selection. github.com/thakoreh/llm-speedtest-mcp
- **vibecheck**: verification tool for AI-generated code output, catching confident-but-wrong results before they ship. github.com/thakoreh/vibecheck
- **hermes-exploration-plugin and apicaller**: MCP-based tool-execution layers with explicit permission boundaries.