

# Harsh Tiwari

<https://tiwari.ai/harsh.com>

[linkedin.com/in/tiwari-ai-harsh](https://www.linkedin.com/in/tiwari-ai-harsh)

Email : [h.tiwari.dev@gmail.com](mailto:h.tiwari.dev@gmail.com)

Mobile : +91-7355517759

## EXPERIENCE

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### • Kusho

Bengaluru, India

*Senior Full Stack Developer*

*Nov 2023 - Present*

- **AI-Powered E2E Testing Platform:** Developed LLM-based testing platform generating API test chains, executing 5K+ concurrent flows with distributed test orchestration, achieving 10x faster testing efficiency.
- **Intelligent Task Processing System:** Built distributed system using Redis, RQ, and vector search for intelligent caching, handling 10K+ daily tasks with auto-scaling and 99.9% uptime.
- **Automated UI Testing Framework:** Engineered Chrome extension with Playwright integration and LLM-powered test generation, achieving 5x test coverage and reducing test creation time by 70%.
- **Universal API Testing Framework:** Architected multi-protocol testing framework with custom DSL for REST/GraphQL APIs, reducing test authoring time by 75% with 95% coverage across services.

### • Castler

Delhi, India

*Senior Full Stack Developer*

*July 2021 - August 2023*

- **Enterprise Payment Processing Platform:** Built high-throughput payment system with Redis and circuit breakers for UPI/IMPS/NEFT, processing 100Cr+ monthly with 99.99% uptime and sub-1% failure rates.
- **Financial Security Infrastructure:** Implemented bank-grade security using OAuth 2.0/PKCE with automated scanning (OWASP ZAP, SonarQube), achieving PCI DSS compliance.
- **No-Code Financial Workflow Platform:** Developed React/TypeScript-based workflow builder with XState, enabling drag-and-drop transaction automation that substantially increased user adoption and reduced manual errors.
- **Large-Scale Database Migration:** Led zero-downtime migration of 500GB+ financial data from MongoDB to MySQL, implementing optimized schemas and caching for 50% faster queries and RBI compliance.
- **High-Scale Batch Payee Validation System:** Architected distributed batch processing pipeline using Redis, Kafka, and parallel worker pools, validating 1M+ payees daily with automated retries and error recovery.

## PROJECTS

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- **Simple Migrator:** Developed and published a Python-based SQL migration tool supporting multiple databases with features for version control, rollback mechanisms, and migration status tracking. Includes CLI for migration creation, application, and synchronization. [Link]
- **Nvim HTTP Test Manager:** Created a Neovim plugin in Lua for managing HTTP API tests, featuring LLM-powered test generation, and result visualization. Supports environment variables and test suite organization with automated test case suggestions. [Link]

## TECHNICAL SKILLS

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- **Programming Languages:** : Python, TypeScript, GoLang, Rust, C++, SQL, Java, JavaScript
- **Frontend Development:** : React, Next.js, TypeScript, Redux, Vue.js, NuxtJS, HTML5, CSS3, Tailwind
- **Backend Development:** : Node.js, NestJS, Express, Flask, FastAPI, GraphQL
- **Databases & Caching:** : PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Pinecone
- **DevOps & Cloud:** : Docker, Kubernetes, AWS, GCP, CI/CD, GitHub Actions, Jenkins
- **AI & Testing:** : LangChain, OpenAI, Playwright, Jest, Mocha, Chai, PyTest
- **Tools & Practices:** : Git, Linux, Nvim, Tmux, TDD, System Design, Microservices

## EDUCATION

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### • Amity University

Lucknow, India

*Bachelor of Technology in Computer Science*

*Aug. 2017 – May 2021*