Harsh Tiwari

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EXPERIENCE

- **Kusho** — Bengaluru, India
  Senior Full Stack Developer — *Nov 2023 - Present*
  - **AI-Powered Testing Platform**: Led development of testing platform using React, TypeScript, and LLMs, featuring visual workflow builder and intelligent test generation. Implemented advanced optimizations reducing test creation time by 65% and execution time by 40%, while achieving 99.9% platform reliability and driving 3x increase in team testing velocity.
  - **Intelligent Task Processing System**: Architected distributed processing pipeline using Redis, RQ, and LangChain, handling 100K+ daily tasks. Implemented vector search with Pinecone and automated scaling, achieving 45% higher throughput and 60% lower latency while maintaining 99.95% system availability under peak loads.
  - **Automated UI Testing Framework**: Engineered end-to-end UI testing solution combining Chrome extension, Playwright, and AI-powered scenario generation. Achieved 3x increase in test coverage and 70% reduction in testing effort, leading to $50K monthly savings in QA costs and 80% faster release cycles.
  - **Universal API Testing Framework**: Developed comprehensive API testing framework supporting REST, GraphQL, and OpenAPI, featuring intelligent validation and custom DSL. Reduced test authoring time by 75% while achieving 90% test coverage across services, enabling seamless CI/CD integration and improving API reliability by 40%.

- **Castler** — Delhi, India
  Senior Full Stack Developer — *July 2021 - August 2023*
  - **Enterprise Payment Processing Platform**: Led development of mission-critical payment infrastructure processing 50Cr+ monthly across UPI/IMPS/NEFT, serving 100K+ daily transactions. Implemented distributed architecture with Redis, achieving 99.99% uptime, 97% success rate, and 35% cost reduction through intelligent load balancing and circuit breakers.
  - **Financial Security Infrastructure**: Spearheaded implementation of bank-grade security system with OAuth 2.0, PKCE, and automated vulnerability scanning (OWASP ZAP, SonarQube). Achieved PCI DSS compliance, eliminated critical vulnerabilities, and reduced security review cycles by 50% through custom security toolkit and CI/CD integration.
  - **No-Code Financial Workflow Platform**: Architected event-driven financial automation platform using React, TypeScript, and XState, enabling non-technical users to design complex transaction workflows. Achieved 80% user adoption, 60% reduction in workflow creation time, and 40% decrease in configuration errors through intuitive drag-and-drop interface.
  - **Large-Scale Database Migration**: Orchestrated critical migration of 200GB+ financial data from MongoDB to MySQL with zero downtime, ensuring RBI compliance and data integrity. Achieved 99.99% data accuracy, 40% faster query performance, and 25% infrastructure cost reduction through optimized schema design and caching strategies.

SKILLS

- **Programming Languages**: : Python, GoLang, Rust, C++, SQL, Java, JavaScript
- **Web Development**: : AngularJS, ReactJS, Node.js, HTML, CSS, JavaScript, TypeScript, Vue, NuxtJs, Next.js
- **Databases**: : MySQL, Postgres, MongoDB
- **Tools and Environments**: : Bash, Git, GitHub, Linux, Terminal, Vim, NeoVim, VS Code, JupyterLab, Docker, Kubernetes
- **Technologies and Frameworks**: : Deep Learning, Mocha, Chai, PyTorch, TensorFlow, NestJS

EDUCATION

- **Amity University** — Lucknow, India
  Bachelor of Technology in Computer Science — *Aug. 2017 – May 2021*