

# Mahesh Kasbe

Software Engineer | Distributed Systems + AI Engineering

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## EDUCATION

|                                             |                   |
|---------------------------------------------|-------------------|
| Mumbai University                           | India             |
| Bachelor of Science in Statistics; GPA 8.60 | 04/2022 - 04/2025 |

## WORK EXPERIENCE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |
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| Founding Engineer   Diligent Insight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 04/2025 - Present |
| <ul style="list-style-type: none"><li>Founded and scaled Diligent Insights &amp; SupplierIQ from 0 to 1, building production AI fintech products that automate UK company, director, financial, and supplier due diligence.</li><li>Engineered a concurrent financial-intelligence pipeline processing Companies House data, bank statements, financial filings, and unstructured documents at scale, enabling thousands of users to run end-to-end due-diligence scans simultaneously.</li><li>Architected and deployed the production AI stack using GPT, AWS, Fly.io, and Next.js, reducing financial research time by 80%, manual analysis by 75%, and improving data accuracy to 95%.</li></ul> |                   |
| SDE   Immersive Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11/2024 - 04/2025 |
| <ul style="list-style-type: none"><li>Developed a scalable licensing system with Stripe integration in a Next.js app, reducing manual onboarding by 80% &amp; boosting subscription revenue by 30%.</li><li>Integrated AR, VR, &amp; 3D experiences using Three.js with gITF models, enhancing interactive product demos &amp; increasing client engagement by 50%.</li><li>Designed &amp; deployed high-performance, SEO-optimized, and responsive landing pages for Immersive Engineering website, cutting load times by 40%, increasing conversion rates by 25%, and enabling deeper insights through integrated analytics.</li></ul>                                                             |                   |
| Linux Foundation Mentorship (Link)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 09/2023 - 11/2023 |
| <ul style="list-style-type: none"><li>Added ArgoCD support for OpenKruise workloads, optimizing CI workflows by 70% and enhancing integration docs.</li><li>Built a cmd tool and Helm hooks for workload health checks, improving deployment speed by 50%.</li><li>Improved OpenKruise health checks for ArgoCD &amp; Helm with custom scripts and job containers, boosting reliability by 60%.</li><li>Automated ConfigMap generation and contributed key features to ArgoCD and Kruise repositories.</li></ul>                                                                                                                                                                                     |                   |
| Google Summer of code (Link)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 05/2023 - 08/2023 |
| <ul style="list-style-type: none"><li>Optimized CI/CD pipeline, boosting efficiency by 80% and reducing deployment time by 60% with automated workflows.</li><li>Developed Docker-Compose setup &amp; automated image deployment to ECR/DockerHub, cutting manual intervention by 70%.</li><li>Enhanced project stability with GitHub Actions and Trivy vulnerability scanning, reducing security vulnerabilities by 50%.</li><li>Improved installation process and authored guides, increasing setup success rate by 90%.</li></ul>                                                                                                                                                                 |                   |

## PROJECTS

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Churro (Link)             | <ul style="list-style-type: none"><li>Built an AI-powered recipe management app that extracts, organizes, and syncs recipes from websites/YT videos, and photos into a personal cloud-based cookbook, growing the platform to \$500+ MRR.</li><li>Developed cross-platform product architecture with intelligent recipe parsing, photo recognition, cloud sync, and family sharing, reducing manual recipe entry by 90% through AI automation.</li></ul> |
| Thostty (Link   Code)     | <ul style="list-style-type: none"><li>Built a local-first coding agent runtime with streaming tool execution, automatic quality/cost-aware model routing, repository-aware context, and iterative test-fix loops across multi-step coding tasks.</li><li>Engineered durable session state, checkpoint/rewind, context compaction, project memory, sandboxed tool permissions, and a benchmark suite for evaluating autonomous code changes.</li></ul>    |
| Bug Tracker (Link   Code) | <ul style="list-style-type: none"><li>Designed and implemented a Spring Boot microservice architecture with API Gateway, load balancing, asynchronous messaging, and hybrid persistence.</li><li>Implemented centralized logging using the ELK Stack and developed the frontend with React.js and JavaScript.</li></ul>                                                                                                                                  |

## SKILLS

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|-----------------------------------------------------------------|--------------------------------------------------------|
| Languages: Python, Java, TypeScript, JavaScript, Go             | Frameworks: Next.js, React, Spring Boot, Express.js    |
| Cloud: AWS, Docker, Kubernetes, ArgoCD, Kafka, ELK stack, Redis | Databases: PostgreSQL, MongoDB, Firebase               |
| AI/LLM: RAG, LangGraph, LangChain, MCP, Langfuse, Pinecone      | Developer Tools: Git, Linux, Bash, Claude Code, Cursor |

## OPEN SOURCE CONTRIBUTIONS

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| <ul style="list-style-type: none"><li>CNCF: Openkruise(Link): Optimized ArgoCD and Helm integrations for OpenKruise workloads, improving CI workflows by 70%, deployment speed by 50%, and reliability by 60%, while automating ConfigMap generation &amp; contributing to key repos.</li><li>NRNB: Graphspace (Link): Optimized CI/CD pipeline, reducing deployment time by 60%, automated Docker deployment, enhanced stability with GitHub Actions and Trivy, and improved setup success by 90%.</li><li>Kubeshop: Tracetest (Link): Added 5000+ lines of code improving developer productivity</li></ul> |  |
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