KRUTARTH SATHE

Full-Stack Software Developer | React, Next.js, Node.js, Express.js AWS, Python

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Work Authorization Status: Canadian Citizen

EXPERIENCE

True North Mortgage (Full Stack Software Developer)

12/2021 - Present Calgary, AB, Canada

Canada's leading residential mortgage brokerage, offering clients across the country low-rate mortgage solutions through a network of retail stores and a digital-first platform.

- Developed Iris, an event-driven document processing microservice using Python that leverages Amazon AWS services (Textract, Bedrock, SQS, SNS, S3) to extract structured data from insurance documents. Implemented KEDA based autoscaling (0-10 pods) for Kubernetes workloads, triggered by SQS queue depth, optimizing resource utilization and cost efficiency by scaling to zero during idle periods.
- Led feature development and maintenance for Tracker and Zeus, internal mortgage-platform applications built in CakePHP and Yii2, enhancing core workflows, stability, and reporting for all departments and stakeholders.
- Developed and shipped advanced revenue forecasting dashboard, enabling agents to visualize progress toward quarterly, yearly stretch targets & lead-purchase goals.
- Designed and implemented the Compare & Save Calculator, a mortgage-savings tool that lets agents compare a client's existing mortgage with a new one and quantify savings (or cost) of breaking early.
- Created the CES system, used by CES agents to systematically follow up with new leads, improving lead conversion and customer engagement across the mortgage lifecycle.

Login Infocom (Senior Software Developer)

02/2015 - 03/2021 Ahmedabad, Gujarat, India

A high-volume cross-border ecommerce company selling electronic gadgets via 24+ eBay stores, processing 4,000+ daily orders with warehouses in the UK, USA, Dubai & China.

- Led end-to-end design and development of ecommerce platforms (ebigsale.com, xpressbuyer.com), increasing online sales reach across UK, EU and USA markets.
- Managed and mentored a team of 5 developers, establishing coding standards, code review practices, and sprint planning to consistently deliver features on schedule.
- Architected and implemented a multi-warehouse stock management system displaying real-time availability for 1,000+ SKUs across China, Dubai, USA, and UK locations, reducing stock-out incidents and overselling.
- Built a centralized PayPal reconciliation dashboard aggregating data from 24+ eBay stores and their individual PayPal accounts, providing multi-currency visibility into cash positions for management.
- Developed supply chain and product inventory management modules to streamline procurement, inbound/outbound logistics, and catalog updates for high-volume ecommerce operations.

Web Innov8 (UK) Limited (Software Engineer)

10/2011 - 01/2015 Middlesbrough, England, United Kingdom

- Designed and developed reusable CRM, supply chain, product inventory, and ecommerce modules, delivering SaaS-style solutions similar to Zoho for multiple client engagements.
- Implemented multi-tenant architecture and configuration-driven workflows so core business modules could be rapidly customized and rolled out for new customers.
- Built end-to-end ecommerce functionality (catalog, cart, checkout, order management, reporting) used as the foundation for several bespoke client solutions.

EDUCATION

Bachelor of Science in Computing

Teesside University

01/2008 - 01/2011 Middlesbrough, England, United Kingdom

PROJECTS

Second Brain - Personal Memory Recall App

https://github.com/krutarthsathe/second-brain

Built a full-stack application that lets users save memories via text, voice (Web Speech API), audio upload (OpenAI Whisper), or Markdown documents, then query them in plain language and receive grounded, cited answers with zero hallucination.

AWS Enterprise RAG Workbench

https://github.com/krutarthsathe/aws-enterprise-rag-workbench.git

Developed an end-to-end RAG workbench on AWS enabling multi-config experimentation across chunking strategies, reranking methods, and LLM parameters. Integrated Amazon Bedrock (Claude + Titan Embeddings), PostgreSQL/pgvector for vector search, and RAGAS for automated evaluation (faithfulness, answer relevancy, context precision). Built a Next.js dashboard for document ingestion, live Q&A, and side-by-side experiment comparison.

SKILLS

Programming Languages:

Python, PHP, JavaScript, TypeScript, SQL

Backend Frameworks:

Django, FastAPI, Laravel, Yii2, CakePHP, Node.js (Express)

Frontend & Web:

React, Next.js, HTML5, CSS3, Tailwind CSS, RESTful APIs, JSON

AI & LLM Tooling:

LangChain, LlamaIndex, OpenAI API, embeddings & semantic search, vector databases (Weaviate, Pinecone), RAG pipelines, prompt engineering, hallucination mitigation, LLM evaluation & observability (Langfuse)

Databases:

MySQL, PostgreSQL, SQLite, MongoDB, Redis

DevOps & Cloud:

Docker, Ansible, Terraform, AWS (EC2, S3, RDS, Lambda, CloudWatch), CI/CD pipelines (GitHub Actions)

Version Control & Collaboration:

Git, GitHub, GitLab, GitKraken, Sublime Merge, JIRA

Package & Build Tools:

Composer, npm, Yarn, Webpack, Vite