

Dhairya Kalpeshbhai Patel

AI Engineer & Tech Lead

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EDUCATION

Dayananda Sagar College of Engineering, Bengaluru, India

Bachelor of Engineering, Department of Information Science & Engineering

GPA: 9.48/10.0

Batch of 2020

TECHNICAL SKILLS

- **Languages:** Python, Java, Go, C++, JavaScript, TypeScript, HTML, CSS
- **AI & LLM:** LangChain, OpenAI, Open Autonomy, PyTorch, Keras, Cursor, Claude Code, GitHub Copilot
- **Backend & Data:** FastAPI, Django, Spring Boot, Node.js, Express, Kafka, RabbitMQ, PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Elasticsearch
- **Cloud & DevOps:** AWS, GCP, Azure, Docker, Kubernetes, Nginx, Jenkins, Git, Railway, Vercel, Firebase
- **Frontend:** React, Next.js, Vue.js, React Native, Flutter

EXPERIENCE

Spocket, Tech Lead (Contract)

Python, AWS, Django, React, Typescript

Remote

Jun 2025-Present

- Promoted from full-stack contractor to Tech Lead in June 2026, owning engineering roadmapping, task allocation, and cross-functional delivery across multiple product teams.
- Took ownership of AWS infrastructure across services, leading an ongoing cost-optimization initiative and standardizing deployments to improve reliability.
- Directed organization-wide security remediation by analyzing, prioritizing, and roadmapping more than 35,000 security alerts across 100+ repositories to clear the backlog within two weeks via an AI-driven remediation framework, then established a standing vulnerability-management program (standardized issue creation and remediation workflows) adopted across the engineering organization.
- Delivered web platforms and Shopify embedded applications end-to-end (frontend and backend) spanning AI automation, SEO Audit, One-Tick Upsell, Cash on Delivery, subscription billing, and a unified credit system with dynamic credit-deduction flows, and launched a production Shopify app with Stripe billing through the Shopify review process.
- Drove AI adoption across the engineering organization: built an AI-native daily development workflow that automated over 60% of my day-to-day work, and shared it across the team to accelerate delivery and reduce repetitive tasks.
- Served as the primary engineering owner for production escalations, partnering with Customer Success to resolve critical issues, reduce resolution times, and improve platform stability.

Valory, Python Engineer (Contract)

Python, AWS, Open Autonomy

Remote

Jun 2025-Jun 2026

- Scoped, architected, developed, and delivered a production AI personal assistant for an external client using the Hermes framework, serving as the sole engineer responsible for the Telegram-based autonomous agent from initial requirements through successful client handover.
- Spearheaded end-to-end backend development of Polystrat, an autonomous AI trading agent on Polymarket prediction markets (Polygon), leading the initiative from research and strategy design through deployment and launch.
- Implemented asset whitelisting mechanisms on the Optimism mainnet for the new Agent Optimus, ensuring improved ROI and APR through strict risk controls and vetted token selection, which culminated in a successful showcase at ETHCannes, driving significant user adoption.
- Designed and developed secure withdrawal functionality for Optimus and Modius agents, integrating smart contract interactions and robust safety checks to protect user funds.
- Optimized Concentrated Liquidity allocation algorithms by improving token allocations and adding a look-back EMA window for optimal tick range selection.
- Developed a trailing yield stop-loss as a safety exit mechanism for the agent to exit non-performing positions and enter into new positions to optimize returns.
- Diagnosed and resolved critical parallel execution issues in strategy workflows, leading to improved transaction success rates and reduced latency in agent performance.
- Built an automated agent reporting and analytics system to enhance operational transparency, improve metric tracking, and aid in decision-making for the agent's selector component.

Thimblerr, Senior Software Development Engineer

Remote

Python, FastAPI, AWS, SQL

Jan 2024-Apr 2025

- Led the development of an internal platform streamlining Ranges & Styles workflow management for efficient client approvals.
- Designed and integrated a unified sampling and order tracking solution, improving UX and enabling automated client email updates for real-time visibility.
- Engineered the Raw Material Sampling workflow, enhancing transparency in procurement and improving operational planning.
- Built an AI-powered fault detection workflow leveraging live factory camera feeds to capture design flaws, boosting efficiency and reducing manpower costs.
- Implemented platform features that increased design team throughput by 30%, enabling delivery of more styles per week.

Quido, Co-founder & CTO

Remote

Python, Java, Spring Boot, AWS, React Native, Redis, React

May 2022-Dec 2023

- Designed and developed Quido, a crypto investment platform enabling users to invest in expert-curated strategies by linking existing exchange wallets (e.g., Bitbns), with seamless integration and cross-platform flexibility.
- Built a scalable backend using FastAPI, Spring Boot, and AWS, supporting real-time market data, automated portfolio rebalancing based on strategy updates and market volatility, and secure exchange integrations.
- Designed and implemented a responsive UI using React Native for the mobile app and React + Next.js for the web, delivering a smooth, intuitive experience across devices.
- Achieved strong early traction, scaling to 5000+ users and managing over \$50,000 in assets, driven by robust architecture, live insights, and an optimized user experience.

Sixt Research & Development, SDE I

Bengaluru, India

Team Orange: Java, Spring Boot, Kafka, Jenkins, PostgreSQL, Kubernetes, Elasticsearch

Aug 2020-Apr 2022

- Developed new features for the Orange Rental Platform which helped the Sales Agent in increasing the sales and decrease the overall checkout time.
- To accurately calculate distance & cost of trip, implemented Map Matching algorithm using Hidden Markov Model which snaps the location pings received from the GPS of the user on the actual path of the road thus optimizing the final route of the ride.
- Helped reduce the overall operational cost & improved the Referral Engine by designing & developing a new in-house solution used by the company to run its referral campaign. This replaces a third party tool that was previously being used.
- Created an in-house tool to accurately measure & provide reporting & searching mechanism to the relevant team.

Saarthi.ai, Artificial Intelligence Intern

Bengaluru, India

AI Team & Chatbot Team: Python, Keras, Pytorch, Fast.ai, Rasa, Django

Jan 2019-Aug 2019

- Designed & Developed an API using Django framework to train a ULMFiT model for Text Sentiment Analysis & get predictions from it. API was deployed using Apache server & was used to train Machine Learning models.
- Developed a Text Sentiment Analysis model using ULMFiT for vernacular languages chatbot which achieved an accuracy of 93%.

PUBLICATIONS

- Sound Classification Using Convolutional Neural Networks, IEEE-CCEM, 2018. [Link](#)