

Abhinav Ayush

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Skills

Frontend: React.js, TypeScript, Next.js, TailwindCSS, Redux, RTK Query, Webpack, Vite

Backend and Databases: Python, FastAPI, Node.js, REST API, WebSockets, PostgreSQL, MongoDB, Firebase, Redis

AI and Machine Learning: LLMs, SLMs, RAG Search, LangChain, ADK

Cloud and DevOps: Google Cloud, Docker, CI-CD, GitHub Actions

Experience

Sr. Founding Engineer, Tryflume.ai

Oct 2024 – Present

- Architected a scalable microfrontend ecosystem via Module Federation with a shared component library, centralized event telemetry, and robust multi-tenant authentication, accelerating feature delivery and unifying the user experience
- Engineered a full-stack multi-modal product discovery engine using FastAPI, vision embeddings, MongoDB Atlas Vector Search, and Gemini Flash reranking, integrated with a virtualized UI, RTK Query SWR caching, and URL-synced filtering to deliver sub-second results across 4000 suppliers
- Built a catalog ingestion pipeline using Gemini Vision and multi-agent orchestration to automate data and image extraction, and attribute normalization of product data, processing files asynchronously with GCP Cloud Task Queues
- Developed scalable product search APIs for external partners, implementing token-based authentication, distributed caching, and dynamic rate limiting to support high-volume, low-latency B2B integrations
- Developed an end-to-end quotation, invoicing, and payment receipt system featuring dynamic state tax calculation, PDF document versioning, and integrated AI QA agents to automatically detect pricing anomalies and content mismatches
- Designed a real-time AI sourcing assistant featuring intelligent agent routing, RAG retrieval, and dynamic rendering of interactive UI components based on conversation context
- Engineered offline-first capabilities for low-connectivity environments using Service Workers, offloading complex calculations to Web Workers to maintain consistent UI performance
- Automated multi-environment CI-CD pipelines to Cloud Run via GitHub Actions, accelerating release velocity

SDE 2, American Express

Sep 2022 – Oct 2024

- Led frontend development for the Corporate Transaction Compliance Tool, designing and deploying micro-frontend modules that enabled compliance teams to audit high-volume corporate card transactions
- Implemented frontend state management with Redux, incorporating RTK Query caching with optimistic updates and lazy-loaded route-level code splitting
- Created a Redis caching layer for transaction aggregation APIs, implementing batch processing pipelines for data normalization and integrating machine learning endpoints for anomaly detection
- Implemented end-to-end authentication with RBAC, secure session management, and token refresh flows for compliance-grade security

SDE 1, BrightMoney

Jan 2022 – Aug 2022

- Designed and implemented the Account Linking mechanism for Checking and Credit Accounts, reducing linking sessions and improving stability
- Managed event logging and telemetry pipelines, ensuring high-fidelity data capture for product analytics and A/B experiment tracking

UI Mobile Developer, OneDirect (GupShup)

Sep 2021 – Jan 2022

- Built Web, iOS, and Android SDKs featuring custom rating mechanisms to integrate feedback services across 500+ organizations
- Contributed to a company-wide, shared UI component library to ensure consistent design and accelerate development across all frontend products

Education

Nitte Meenakshi Institute of Technology, Bangalore – B.Tech in Information Science

2017 – 2021