

# Akhil Harikumar

Full Stack Developer · Chennai, India

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## SUMMARY

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Full stack developer with 3.5+ years of experience shipping React/Next.js and FastAPI/Node.js applications to production, including multiple AI features using LLM & RAG integrations. Delivered measurable impact by cutting page load times by up to 90%, reducing cloud infrastructure costs by 70% and engineering user-facing AI functionality in production.

## EXPERIENCE

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Software Engineer · **Groovin You Entertainment** · Mar 2023 – Sep 2025

Boston, MA, USA

- Engineered a secure, scalable Admin Portal using a Turborepo pattern and FastAPI microservices, streamlining gig operations and cutting manual back-office effort by roughly 50%.
- Reduced Total Blocking Time (TBT) from 1.5s to 140ms by migrating the Artist Portal to Next.js (React Server Components) with lazy loading and code splitting, improving page responsiveness.
- Cut page load latency by up to 90% on key pages by migrating static assets to Google Cloud Storage with CDN, improving LCP.
- Trimmed cloud infrastructure costs by 70% via Redis caching of API responses, resulting in fewer backend calls & faster performance.
- Integrated Google Vision AI image moderation via RESTful APIs, reducing inappropriate content uploads by 85% and improving overall moderation quality.
- Implemented JWT-based authentication and role-based access control (RBAC) across the platform, strengthening application security and tightening permissions.
- Built an online work agreement generation and e-sign flow so artists can sign PDFs while accepting gig offers, replacing a manual email-based process.

Full Stack Developer · **Arun Pharma and Surgicals** · Jan 2020 – Feb 2021

Chennai, India

- Refactored FastAPI and Node.js/Express APIs and introduced RabbitMQ-based real-time order updates, improving the reliability of order processing and status notifications.
- Improved API response times from about 500ms to under 60ms by optimizing MongoDB queries and introducing a Redis cache.
- Optimized a mobile-responsive contactless ordering application built in Next.js, supporting around 300 online orders per day.
- Crafted Tailwind CSS layouts for key ordering flows (placement, history and status), making the app easier to use on mobile.

## EDUCATION

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Master of Science in Computer Science · **University of Texas at Arlington** · 2021 – 2023

Arlington, TX, USA

Bachelor of Engineering in Computer Science · **Anna University** · 2017 – 2021

Chennai, India

## SKILLS

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**Certifications:** AWS Certified Cloud Practitioner

**Languages & Frameworks:** JavaScript (ES6+), TypeScript, Python, React, Next.js, Node.js, FastAPI, Django

**Web Technologies:** HTML5, CSS3, Tailwind CSS, Framer Motion, RESTful APIs, GraphQL, WebSockets

**Databases:** PostgreSQL, MongoDB, Firebase, Redis, Qdrant, Airtable, Sanity

**Cloud & DevOps:** AWS, Google Cloud, CI/CD Pipelines (GitHub Actions, Vercel Deploy, Docker), Serverless

**AI & LLM Tools:** Assistants (GitHub Copilot, Claude Code), LLM Integrations (OpenRouter, Groq, LiteLLM)

**Tools & Testing:** Git, Sentry, Jest, RabbitMQ Streaming, Kafka, Microservices

## TECHNICAL PROJECTS

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**Recoverse** | recoverse.space | React/Next.js, FastAPI, Tailwind CSS, Firebase Auth, Supabase, OpenRouter, Groq

- Launched an AI-powered recommendation platform for sharing personalized movie, TV and game suggestions, using automated genre classification and ranking to serve 500+ monthly users.
- Generated instant content summaries and metadata in the app by connecting OpenRouter's DeepSeek LLM to FastAPI endpoints.
- Added semantic search that lets users type natural-language queries and get contextually relevant recommendations powered by Groq.

**Dividends 4 Income** | d4i.akhilkumar.dev | React/Next.js, FastAPI, Tailwind CSS, Redis, Groq

- Delivered up-to-date dividend health metrics for 1,000+ stocks with simplified analytics.
- Rolled out real-time search that auto-fills tickers and company names and returns historical dividend yield data.
- Powered AI-driven analysis of Reddit discussions using Groq to surface sentiment and insights for dividend investors.