

Karan Kumar

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Professional Summary

Full Stack Software Engineer with 3+ years of experience building AI-integrated web applications end-to-end. Combines a strong Python backend (Flask, FastAPI, AWS serverless) with a modern React and Next.js frontend, plus PostgreSQL, Docker, and CI/CD automation. Comfortable owning features from database schema to production UI.

Technical Skills

Backend: Python (Flask, FastAPI), Node.js, Express.js, REST APIs, WebSockets, Microservices

Frontend: React.js, Next.js, TypeScript, Redux Toolkit, Tailwind CSS, Material UI, Ant Design

Databases: PostgreSQL, MongoDB, Redis

Cloud & DevOps: AWS (Lambda, API Gateway, S3, CloudFront, LightSail, CloudWatch), Docker, GitHub Actions, CI/CD

Testing: Cypress (E2E), pytest **Tools:** Git, Jira, Notion, Linux

Professional Experience

Full Stack Software Engineer, Concept Recall (*software development agency*) Dec 2022 – Jan 2025

- Shipped AI-driven web features end-to-end for Brarista, an AI-driven bra-fitting platform built for e-commerce clients: designed PostgreSQL schemas, built Python (Flask, FastAPI) backends, and developed React and Next.js interfaces for production users on live Shopify storefronts.
- Worked across the full stack on the Brarista project, including stepping up to own backend delivery during a team shortage and learning AWS Lambda and API Gateway on the job to keep features on schedule.
- Built AWS Lambda functions triggered by Shopify events, processing real-time data through API Gateway and delivering results to the React frontend.
- Packaged the Brarista fitting tool UI as a reusable React component library adopted by 2 internal teams, cutting integration time for new storefronts.
- Automated CI/CD to AWS S3 and CloudFront with GitHub Actions and built out Cypress E2E coverage across core user flows, cutting recurring post-deployment regressions.
- Reviewed pull requests and onboarded new engineers across frontend and backend work.

Freelance Full Stack Developer, Fiverr (Level 1 Seller) May 2021 – Dec 2022

- Delivered 30+ projects spanning REST API integrations, responsive React and Next.js frontends, and authentication flows for 15+ clients, maintaining a consistent 5-star client rating throughout.

Projects

Brarista AI Fitting Tool (Python, Flask, FastAPI, React, AWS Lambda) [Concept Recall](#)

- Built an AI-powered size calculation tool with a Python/Flask backend integrating ML models and a React frontend deployed as a reusable component library.
- Integrated AWS Lambda and API Gateway for real-time Shopify event ingestion; deployed static React builds to Shopify themes.
- Debugged a multi-tenant response-routing issue where ML results weren't reliably matched to the correct store, causing some users to be stuck waiting or wrongly routed to a broken email-fallback flow; traced the logic across backend and frontend and corrected it without a full rewrite of the surrounding system.

Analytics Dashboard, Brarista (Node.js, Express.js, React, PostgreSQL, AWS LightSail) [Concept Recall](#)

- Developed a full-stack analytics dashboard with a Node.js/Express.js backend, optimized PostgreSQL schemas, and an ECharts-powered React frontend for data visualization.
- Secured the dashboard with JWT and bcrypt authentication; deployed on AWS LightSail for reliable hosting.

GoChat, Distributed Messaging Platform (Go, PostgreSQL, RabbitMQ, Docker) [Personal Project](#)

- Designed a distributed chat system in Go using a microservices architecture with the Repository Pattern and RabbitMQ for asynchronous inter-service communication.
- Implemented WebSocket-based real-time messaging and full Docker containerization of all services.

Publishing House Management System (Angular, JakartaEE, PostgreSQL, Docker)

[Personal Project](#)

- Built a full-stack management system with an Angular frontend and a Jakarta EE (JAX-RS) backend on WildFly, with JWT authentication and role-based access control across four roles.
- Designed the PostgreSQL schema for employees, authors, and publications with many-to-many relationships; fully containerized with Docker Compose.

Distributed Notepad (Go, Gin, GORM, WebSocket, SQLite)

[Personal Project](#)

- Built a real-time collaborative document editor in Go with live multi-user editing, presence indicators, and document version history with restore.
- Implemented WebSocket-based broadcasting for instant synchronization across clients, with a layered handler/service/repository architecture and bcrypt/session-based authentication.

Education

University of Florence (UNIFI), Master's in Software: Science & Technology,
Firenze, IT

Expected Aug 2026

- Erasmus Nazionale exchange (6 months) at the University of Camerino (UNICAM), with coursework in software testing, multi-agent systems, and process mining.
- Coursework in Distributed Systems Design and concurrent programming with Go, which motivated building GoChat (below) independently.

Quaid-e-Awam University of Engineering, Science & Technology, BS in
Information Technology

Oct 2018 – Oct 2022

- CGPA 3.8/4.0, Ranked 4th in graduating cohort. Technical Team Member for TechnoMind-2k19, organizing 14+ technical competitions.

Languages

English: Fluent (Professional Proficiency) **Italian:** Beginner (A1 Level)