

Prakhar Mittal

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WORK EXPERIENCE

Walmart

Aug 2021 – May 2026

Software Engineer, Subscriptions

San Francisco Bay area

- Architected scalable web entry points across **high-traffic** pages in walmart.com (Search, Item Page, Cart) using **Next.js, React** hooks and GraphQL, increasing subscription funnel entry to more than 2M users.
- Engineered a Node.js-based MCP server to translate schemas into production queries, bridging high performance data access with backend AI inference workflows.
- Designed scalable microservices architectures using Apollo Federation, orchestrating high-frequency subscription lifecycle data across 5 backend services with DataLoader batching and typed resolvers.
- Ensured full screen-reader accessibility by achieving WCAG compliance across core features.
- Mentored 2 junior engineers, led technical design documents and enforced code quality across repositories

Software Engineer, Lists & Registry

Sunnyvale, CA

- Engineered Black Friday Deals Lists, ensuring a seamless shopping experience for **10M+** concurrent shoppers with zero downtime.
- Optimized rendering for smooth, responsive interactions across high-traffic platforms, improving Core **Web Vitals** by 40% through advanced code-splitting and asset optimization.
- Integrated ML-driven product recommendations into the Registry, resulting in a **12% lift in conversion rate**.
- Internationalized (i18n) the project enabling storefront launches across the US, Canada, Mexico, and Chile.

Livestock City

Feb 2021 – May 2021

Software Engineer Intern

Charlottesville, VA

- Engineered Django/PostgreSQL auction and social media features, cutting inventory lookup latency by 30% and onboarding 100+ sellers.
- Reduced API response time by designing Django REST endpoints for bidding and inventory management.

INDEPENDENT PROJECTS

FIFA World Cup Polymarket Advisor | *Next.js, TypeScript, PostgreSQL, Vercel AI SDK, Tailwind CSS*

- Built a full-stack analytics platform comparing custom Elo probability models against live Polymarket odds.
- Engineered APIs and integrated LLM match analysis using the Vercel AI SDK
- Current Phase: Upgrading to an AI Agent using RAG (via pgvector) and real-time news sentiment ingestion.

EDUCATION

Westcliff University, Irvine

2024 - 2026

Master of Science, Engineering Management (3.91/4.00)

Irvine, CA

University of Florida

2019 - 2020

Master of Science, Computer Science (3.74/4.00)

Gainesville, FL

Jaypee Institute of Information Technology

2015 - 2019

Bachelor of Technology Degree, Electronics & Comm. Engineering

Noida, India

SKILLS

- **Languages:** JavaScript, TypeScript, Python, SQL, Java
- **Frontend & Testing:** React, Next.js, Tailwind CSS, Jest, React Testing Library, a11y/ Accessibility
- **Backend & Databases:** Node.js, GraphQL, Apollo Federation, Django, PostgreSQL, REST
- **Infrastructure & Observability:** Splunk, Grafana, Docker, GitHub CI/CD, Vercel, GCP
- **AI Engineering:** Model Context Protocol (MCP), RAG (Retrieval-Augmented Generation), LangChain