Pranav Nanaware

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EDUCATION

- **University of Massachusetts** — Dartmouth, MA, USA
  Master of Science - Computer and Information Science — Sep 2022 - May 2024

- **Savitribai Phule Pune University** — Pune, India
  Bachelor of Engineering - Computer Engineering — Aug 2016 - May 2020

SKILLS SUMMARY

- **Languages**: Python, JavaScript, TypeScript, Java, Dart, SQL, Bash
- **Backend**: FastAPI, Flask, NodeJs, Django,, Spring Boot
- **Frontend**: React, Next.js, Angular, Flutter, HTML, CSS, TailwindCSS
- **Database**: MySQL, MongoDB, Redis, Prisma, PostgreSQL, DynamoDB, PgVector, Pinecone, Elasticsearch
- **Cloud/DevOps**: AWS, GCP, Docker, Kubernetes, Terraform, Jenkins & Gitlab CI/CD
- **Additional Skills**: Git, LLM, RAG, Vector DB, LangChain, GraphQL, Streaming Services

EXPERIENCE

- **Sams Club - Walmart** — Sunnyvale, CA
  Full Stack Software Developer (Contract) — Dec 2024 - Present
  - Engineered a scheduled **Python** pipeline on **WCNP** to automate data sync from **BigQuery** to **MySQL** and **Elasticsearch**, leveraging **Redis** locks and **query batching** to cut batch runtime by **35%**
  - Rewrote the legacy NUPs & Banners module with **Node.js, TypeScript and Redis** caching layer, cutting **API latency by 20%** and boosting merchandising search recall.
  - Developed and optimized unit tests and integrated SonarQube for the search module, increasing coverage to over 85% and reducing production bugs by 30%.

- **Comethru** — Los Angeles, CA
  Full Stack Software Developer (Internship) — Aug 2024 - Nov 2024
  - Designed and implemented GraphQL APIs with **Python, FastAPI, MySQL** to support event creation, RSVP workflows, and ticketing at scale to support **1M+ users.**
  - Built a **Next.js** frontend with SSR/ISR, dynamic routing, custom **React** hooks and responsive **TailwindCSS** components from 50+ Figma screens; achieving for sub-**200 ms** page loads and **40%** longer session duration.
  - Orchestrated Stripe payment flows, PDF ticket generation, and Twilio notifications via microservices, unified content in **Sanity CMS**, automating **90%** of manual billing and messaging and processing at **99.9%** uptime.

- **VirtouStack Softwares** — Pune, India
  Software Engineer (Full-time) — July 2020 - July 2022
  - **For Espotz.online (Esports Platform)**: Built high-availability REST APIs using **Django, Python, & PostgreSQL** for tournament management, supporting **20K+ concurrent users** under **200ms latency** via connection pooling, boosting platform scalability.
  - Automated real-time matchmaking using **Kafka** for player stats streaming and **CronJobs** for scheduling, improving match accuracy by **30%** and reducing player wait times by **50%**.
  - Designed an **AWS serverless pipeline** (S3, SQS, Lambda) with Python to process **20K+ images/day**, cutting storage costs by **30%** and improving page load speed by **50%**.
  - Deployed scalable infrastructure on **AWS EC2/ECS** using **Docker, Kubernetes, & GitLab CI/CD**, achieving **99.9% uptime** and reducing deployment time by **90%**.
  - **For 121Cars.in (Car Marketplace)**: Architected backend services for auctions/payments using **Node.js, TypeScript & MongoDB**, scaling to **100K+ users** with **Redis caching** to reduce API latency by **40%**.
  - Developed a **GraphQL**-powered admin dashboard (React, PostgreSQL) with role-based access control, improving admin efficiency by **60%** through dynamic reporting tools.

RECENT PROJECTS

- **PodQuill - AI podcasting platform** — Jul 2024
  Tech: Convex, React.js, Next.js, TailwindCSS, Vercel, GPT API
  - Designed and built responsive UI/UX and audio player using HTML, TailwindCSS, Next.js, React and npm packages
  - Implemented queries, mutations and webhooks for real-time data management with relational DB
  - Integrated **OpenAI's APIs** for text-to-voice and image generation, employing chunking techniques to minimize token size

- **NewsBites - Personalized Short News App** — May 2024
  Tech: Flutter, Python, FastAPI, BART transformer, PostgreSQL, GCP, Docker, Supabase
  - Created **Flutter** app with **Supabase** for secure, passwordless logins, reducing sign-up duration to under 1 minute.
  - Developed an data scraping, summarizing & storage pipeline using lxml, BART LLM, job schedulers, **FastAPI**, **PostgreSQL**
  - Implemented a recommendation model for personalized feed informed by real-time user behavior

- **DocQuill – Freemium SaaS to chat with documents using AI** — Jan 2024
  Tech: React, Next.js, TypeScript, PostgreSQL, Pinecone, Langchain, Stripe, Prisma ORM
  - Implemented RAG pipeline using **Langchain, OpenAI embeddings, Pinecone Vector**, interfaced with **gRPC APIs**
  - Developed UI with React, Next.js, and TailwindCSS; integrated Stripe Webhooks/APIs for payment, and added features like real-time streaming, PDF viewing, drag-and-drop, and high-performance messaging