

Prem Prakash Sharma

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github.com/PremPrakashCodes

Technical Skills

Languages: Python, TypeScript, JavaScript

Frontend: React.js, Next.js, Tailwind CSS, Electron.js

Backend & APIs: Node.js, Express.js, FastAPI, REST APIs

Databases & Caching: PostgreSQL, MongoDB, Redis, Supabase, Prisma and Drizzle ORM

Cloud & DevOps: AWS, Docker, Git, CI/CD

Experience

BigCircle

Oct 2024 – Present

Software Developer

Gandhinagar, Gujrat

- Working as a Software Engineer building production-grade web and AI systems for enterprise use cases..
- Developed type-safe APIs using tRPC, ensuring robust and reliable backend communication with strong TypeScript support
- Built scalable backend services using Python (FastAPI) and Node.js, with secure REST APIs.
- Implemented LLM routing, logging, and observability using LiteLLM and Langfuse.
- Containerized applications with Docker and deployed services on AWS.

Freelance

Aug 2023 – Oct 2024

Web Developer

- Developed responsive websites and web applications for clients using HTML, CSS, JavaScript, and React.
- Implemented RESTful APIs and integrated third-party services to enhance website functionality.
- Collaborated with clients to gather requirements, optimize workflows, and ensure timely project delivery.

Projects and Contributions

Ubik

- Built a C-level executive AI desktop assistant to automate operational and decision-support workflows, reducing reliance on manual executive staff.
- Designed and implemented a multi-agent AI architecture (Planner, Executor, Awareness) for task orchestration, contextual reasoning, and autonomous execution across schedules, meetings, emails, and calendars.
- Integrated Gmail using Google Workspace APIs, enabling executives to read, send, and manage emails directly within the application.
- Developed Gmail webhooks to trigger on incoming emails, enabling automatic labeling, summarization, and prioritization to reduce inbox overload.
- Tech Stack: Python, FastAPI, SQLAlchemy, PostgreSQL, Electron, LiteLLM, Langfuse, Docker, AWS, Google Workspace API

AI-Powered Document Classification

- Built an AI-driven internal system to automatically classify document types and extract structured information at scale from enterprise documents.
- Implemented an event-driven architecture where Outlook webhooks trigger backend services to validate email attachments and enqueue them for processing.
- Designed scalable background processing using Redis and Dramatiq to handle high-volume document ingestion without impacting application responsiveness.
- Developed OCR-based extraction pipelines for PDF, DOCX, and XLSX files, with a fallback AI image-based analysis using OpenAI models when OCR output is unreliable.
- Tech Stack: Python, Next.js, Redis, Dramatiq, PostgreSQL, Docker, OCR, OpenAI, AWS EC2 (GPU)

Suna Ai Agent

[Link](#)

- Fixed EventSource memory leaks in the frontend API, improving application stability and performance (PR #1560).

- Refactored Supabase CLI usage to leverage `npx supabase`, enhancing setup reliability and developer experience (PR #1551).

Brandiligence

[Link](#)

- Implemented a subscription-based payment system while adapting the solution to regional payment constraints.
- Initially integrated Stripe for recurring payments and later migrated the entire payment flow to PayPal due to Stripe not being supported in Israel.
- Owned end-to-end payment gateway integration, including payment setup, transaction handling, and validation logic.
- Executed the payment gateway migration with minimal disruption, ensuring uninterrupted payment functionality and a smooth user experience.
- Tech Stack: Next.js, tRPC, Drizzle ORM, Stripe API, PayPal API

Education

Indira Gandhi National Open University (IGNOU)

Expected January 2028

Bachelor of Computer Applications (BCA)

- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Web Development