

SRIKANTA PRADHAN

PYTHON FULL STACK DEVELOPER | FASTAPI · REACT · TYPESCRIPT

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 4.8 years of experience building production web applications and REST APIs using Python, FastAPI, React.js, Next.js, TypeScript, Node.js, and PostgreSQL. Delivered Python/FastAPI services for a HIPAA-regulated healthcare application and a real-time incident reporting platform, including GPT-4-powered conversational features. Experienced in enterprise API integration, authentication, performance optimization, and cross-functional delivery. Achieved ~70% faster page loads and ~40% fewer redundant API calls in production applications.

TECHNICAL SKILLS

Backend: Python, FastAPI, Pydantic, Django, Node.js, Express.js, REST APIs, JWT authentication, API integration

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Redux Toolkit, TanStack Query, Tailwind CSS, Material UI

Databases: PostgreSQL, MySQL, MongoDB, SQLAlchemy, Alembic (project experience)

Cloud & Tools: AWS S3, Git, GitHub, GitLab, Agile/Scrum, Swagger/OpenAPI, structured logging

AI & Domain: OpenAI GPT-4 API, prompt engineering, streaming responses, healthcare (HIPAA) applications, fintech, incident reporting

PROFESSIONAL EXPERIENCE

Software Engineer — Capital Numbers Infotech | Aug 2024 – Jul 2026

- Developed Python/FastAPI endpoints for the Interra real-time fire incident reporting platform and an AI-powered healthcare application built under HIPAA requirements, supporting backend workflows and frontend integration.
- Integrated OpenAI GPT-4 conversational features in a healthcare application, including streaming responses, prompt design, and conversation context handling.
- Built and optimized React.js/Next.js/TypeScript interfaces connected to REST APIs; used Redux and TanStack Query to reduce redundant network requests by ~40%.
- Improved application load times by ~70% using lazy loading, image optimization, virtualization of large lists, and bundle optimization.
- Delivered offsite client engagements for Motive: Tcall, an AI-powered assistant platform, and Interra, a real-time fire incident reporting platform.
- Collaborated on enterprise reporting interfaces; mentored engineers, performed code reviews, and improved Core Web Vitals.

Senior Software Engineer — LiveDigital Technologies Pvt. Ltd. | Jun 2024 – Jul 2024

- Contributed to frontend engineering and delivery of responsive web interfaces for digital product initiatives.
- Built an industrial weighbridge automation interface with CCTV integration, automated gate-pass generation, and multi-role access control, achieving a 30% system performance uplift.

Senior Software Developer — Teceads Solutions Pvt. Ltd. | Jun 2022 – Jun 2024

- Built full-stack applications using React.js, Next.js, Node.js/Express, MongoDB, and PostgreSQL; designed and integrated REST APIs.
- Developed Python/PostgreSQL REST API functionality for an employee engagement portal supporting recruitment, assessments, and learning workflows.
- Implemented a multi-modal booking platform with live availability, interactive seat selection, role-based administration, and AWS S3 asset management.
- Integrated Stripe, PhonePe, and CCAvenue payment gateways with error handling, retry flows, and reconciliation support; implemented JWT-based authentication.

System Analyst — Smartrecon Technologies | Dec 2021 – Mar 2022

- Analyzed fintech reconciliation workflows and contributed to application performance and transaction-processing improvements.
- Audited ATM and banking transactions (online and offline) and produced client-specific compliance and reconciliation reports.

INTERNSHIP

Python / Django Developer Intern — Beta Century | 182 Days

- Built a Food & Clothing Donation Management System in Python and Django with user registration, donation logging and history, and an admin module for users, inventory and delivery; worked in Agile sprints with manual and system testing before deployment.

PROJECTS

AI-Powered Healthcare Platform | Python, FastAPI, React, OpenAI GPT-4 — Developed FastAPI endpoints and integrated a conversational assistant with streaming output and context management, built under HIPAA requirements.

Interra Real-Time Fire Incident Reporting | Python, FastAPI, React — Implemented backend APIs and responsive workflows for real-time incident submissions and communication with authorities (Motive client engagement).

Tcall AI-Powered Assistant Platform | React, Next.js, AI service APIs — Integrated AI service APIs for assistant workflows with reliable data flow between services and responsive UI interactions (Motive client engagement).

DevTrack Authentication API | FastAPI, Pydantic, PostgreSQL, SQLAlchemy, Alembic — Personal project, in development: user registration, JWT login, refresh-token rotation/revocation, validation, centralized exception handling, request IDs, and structured logging.

Frontend Performance Modernization | React, Next.js, TanStack Query — Improved page-load performance by ~70%, optimized 10k+ row views, and reduced unnecessary API calls by ~40%.

Multi-Modal Booking Platform | React, Next.js, Node.js, MongoDB, AWS S3 — Bus, flight, hotel, and government reservations with live availability, a custom seat-layout engine, role-based admin/agent portals, and Stripe, PhonePe, and CCAvenue payments.

Industrial Weighbridge Automation | React, Redux, Material UI — Replaced manual truck weighing with CCTV integration, automated gate passes, and multi-role user management; 30% performance uplift.

EDUCATION

Master of Computer Applications (MCA) | Trident Academy of Technology, Bhubaneswar | CGPA 8.87 | 2021

Bachelor of Science (Chemistry) | Utkal University | 2017

AVAILABILITY

Immediate joiner | Open to Pune, Bengaluru, Chennai, or Hyderabad; hybrid work and 2:00 PM–11:00 PM shift