Nirajan Dhakal

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I am a software engineer with a strong passion for technology. I research online apps and explore the latest developments in tech during my personal time. I use Python, Django, and JavaScript frameworks like Next.js to create scalable applications. I also have a strong desire to learn new things and keep up with the latest developments in AI and ML technology.

WORK EXPERIENCE

Software Developer (Remote)   **February 2025 - Present**
3P Trades LLC.

- Contributed to the development of Materiel Insights, a specialized platform for managing Bills of Materials (BOMs) and product lifecycle data.
- Enhanced application performance through code optimization.
- Implemented AI to query databases using natural language.

Full Stack Web Developer   **June 2024 - February 2025**
Aarambha IT Research Center Pvt. Ltd.

- Contributed to backend development of *TishyandCo* e-commerce platform using Django and DRF, building RESTful APIs and integrating Stripe payment system with asynchronous task processing using Redis and Celery.
- Optimized and maintained backend infrastructure for *PolarTreks*, having improved system performance and API response times.
- Developed *SahariSwasthya* lab report generation and store system using Django and PostgreSQL, having implemented features for lab report generation and administrative analytics.
- Built and deployed *PokharaDarpan* news platform using Django and Bootstrap, having created a responsive content management system for news articles.

Web Developer Intern   **April 2023 - August 2023**
Pine Softwares Pvt. Ltd.

- Developed full-stack web applications using Laravel and MySQL for multiple clients
- Implemented responsive UI designs using Bootstrap

TECHNICAL SKILLS

Languages: C, Python, JavaScript, TypeScript
Framework/Libraries: Django, Django REST Framework, React js, Next js, Tailwind CSS
Tools: Git, Docker
Databases: PostgreSQL, MySQL, MongoDB

PROJECTS

PDF OCR with RAG Chatbot (ongoing)

- Built a full-stack PDF assistant using React, Tailwind CSS, Express.js, and Vercel AI SDK.
- Extracted text from PDFs using Tesseract and Gemini models.
- Generated and stored vector embeddings using pgVector in PostgreSQL.
- Implemented a lightweight RAG chatbot for querying document content via natural language.

Auction/Bidding Web Application [(Project Link)](#)
- Developed an auction platform using Django REST Framework and secure JWT authentication.
- Integrated Celery and Redis for handling time-sensitive tasks like auction completion and notifications.
- Created a comprehensive product and transaction management system (including customer profiles, reviews, and automated bidding).
- Designed a secure transaction system with customer balance management to ensure smooth auction operations.

E-Commerce API [(Project Link)](#)
- Built a Simple E-commerce REST API using Django and PostgreSQL, implementing secure authentication and order processing systems
- Developed a robust product management system with integrated shopping cart functionality, allowing real-time inventory tracking and automated order fulfillment
- Implemented comprehensive testing and monitoring using pytest and Locust, ensuring reliable performance and high code quality

EDUCATION

Bachelor of Science in Information Technology   **Completion Date: September 2024**
Infomax College of IT & Management
- **Relevant Coursework:** Operating Systems & Computer Architecture, Introduction to Databases, Web Application, Mobile & Web Multimedia