

# Nirjal Paudel

Software Developer and Engineer  
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## Summary

Software engineer with 5+ years of experience who loves to solve real world problems and automate the solution.

## Computer Skills

**Proficient in:** Python, PostgreSQL, JavaScript, GIT, MongoDB, Rust, Python, Golang

**Frontend:** ReactJS, Html5

**Familiarity:** Rust, Doppler, Rust, MVC, Clean code, dependency injection, Nginx, Linux, Rest API, GraphQL, VIM

**Databases:** MongoDB, Redis, PostgreSQL Platform: AWS, Digital Ocean, Heroku

**Tools:** Husky, ESLint, Prettier, Docker, Kubernetes, Makefile, PNPM, NPM, yarn, Neovim, Tmux

**Soft Skills:** Communication, Cultural Adaptability, Mentoring, Leading

## Professional Experience

### Fullstack developer for Carboon Zero (Contract)

**Remote - Greater London, England, United Kingdom**

May 2025 – Oct 2025

- Made up web dashboard for various works in **Django and Django rest framework**
- **Ingested meters reading across United Kingdom** into postgresql database
- Made **fullstack solutions** in **React** and **Django** REST Framework
- Done extensive tests and delivered **quality software** without the need of QA
- **Changed core legacy code logic** or issuing invoices

### Backend developer for Nutrogen

Senior Software Engineer - Brisbane, Queensland, Australia

Nov 2024 - Jul 2025

- Led the **end-to-end development of a subscription module**, enabling recurring revenue streams and improving customer retention.
- Architected and scaled an **event-driven system for a hierarchical user base**, ensuring high reliability and seamless scalability as user activity grew.
- Enhanced and **optimized aggregated payment collection for Nutrogen**, improving efficiency and reducing payment processing overhead.
- Engineered **custom workarounds for Stripe's feature gaps**, unlocking business-critical functionality not natively supported.
- Set up **platform infrastructure with Stripe Connect**, enabling **secure multi-party payments** and streamlined onboarding for partners.

### **Database, backend, and merchandising developer for morgenland-teppiche.de**

**Remote** - Hamburg, Germany

Aug 2023 – Mar 2024

- Made up web dashboard for various works in **Django and Django rest framework**
- **Automated manual tasks** using python
- Optimized search and filtering **efficiency from 5s to 300ms in PostgreSQL**
- Performed global sorting of items using heuristics in a graphed environment
- **Mentored** colleagues to set up **admin panel** in both frontend
- Developed automated pipelines for various markets like Amazon, Otto, google merchandising etc
- Implemented **global automated items ordering** in GO Lang
- **Cloud cost optimization(s)** and database architecture for maximum efficiency
- **Setup asynchronous communication** between python, Laravel and other languages

### **Database, cloud, and backend developer for hyteno.com**

**Remote** - Paris, France

Jan 2021 – Aug 2023

- Deployed the application in **AWS EC2**
- Firebase Cloud Messaging **notification system** made
- Faster dynamic and most frequently used data in **Redis**
- Managed **payment integration** with stripe.
- **Mentored** colleagues to set up **CI/CD** in both frontend, backend
- Setup communication between **Django and Node.js** using **RabbitMQ**
- Solved **timezone based problems** for global application
- Managed payment platform using **stripe**

### **Database, cloud, and backend developer for SoftShala, Nepal**

**Onsite** - Kathmandu, Nepal

Nov 2019 – Nov 2020

- Optimized **MongoDB access patterns**
- Used **MongoDB aggregation framework**
- Made a video streaming platform with Node.js express.
- Developed **TikTok like application**
- Video storage with **AWS S3** with **CloudFront** CDN enabled.
- Deployment of server with **Document DB** (managed MongoDB service in AWS)
- Video Processing with **Amazon SNS** was performed using FFmpeg package on a separate service

## Personal Projects:

### Postman to Typescript

Postman-to-TypeScript (also known as [@n1rjal/pm\\_ts](#)) is a Node.js-based utility that scans a Postman collection (exported as JSON) and automatically generates TypeScript interfaces for API requests and responses—including query parameters and request/response bodies.

### HamroBakas

Simple yet effective ecommerce platform with Django

- Social account integration
- Ecommerce made on **Django**
- Role based system for office and admin management
- SMTP service for email sending

## Events

### Renegade Challenge and Hackathon

#### Kathmandu, Nepal

Successfully implemented dynamic questionnaire via web sockets

- Integrated IOT devices with Node.js via serial port
- Integrated Twilio for alerting
- Implemented tombstone pattern for mutating data
- Implemented chained data structure like linked list and graph in PostgreSQL
- Implemented weighted graphs for self referencing and foreign referencing tuples

### KMITL Workshop

#### Bangkok, Thailand

A workshop on web development with HTML5 for KMITL University

- Introduced attendees to HTML
- Introduced attendees to CSS
- Introduced attendees to JavaScript

## Accomplishment

- Won **International hackathon** organized by **Microsoft**.
- Won **National hackathon** organized by Renegade Insurance, a USA based company with office in Nepal.
- Won **National hackathon** organized by **CSIT association of Nepal**.