Nithunraj N M

Software Developer - Python

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Summary

Python Backend Engineer with 3.5+ years of experience building banking and compliance-driven enterprise applications, specializing in core python, REST API development using Django and ETL processes.

Technical Skills

Languages: Python, SQL, HTML5, CSS, JavaScript

Frameworks & Technologies: Django, REST API, RabbitMQ, Jinja, ETL, Web Scraping, CI/CD, Agile, Microservices

Tools & Databases: Linux, Pandas, NumPy, Git, Jira, MongoDB, MySQL

Work Experience

Aparajitha Software Services — Nov 2025 – Present

Specialist Engineering - Software (Python) — *Madurai, TN*

Project - Governance, Risk, and Compliance (GRC)

- Developed and maintained **REST APIs** for the payroll application, integrating attendance data with taxation, HR reports, claims, and loan processing.
- Implemented a scalable **PDF** report generation system supporting **300+** data columns efficiently with automated layout optimization across all business units
- **Debugged** and resolved critical issues, closing tickets across the payroll application to maintain stable functionality.
- Collaborated in an **Agile** environment using Jira and **Git**, ensuring timely delivery and clear sprint planning.

Finsurge — Aug 2022 – Nov 2025

Senior Software Developer (Python) — *Nagercoil, TN*

Project - Loan Orgination Solutions (LOS)

- Developed an end-to-end **scorecard model** using Django REST API and Pandas, implementing calculation logic to evaluate customer loan eligibility scores, widely adopted across multiple applications.
- Upgraded the application from single to multi-condition support. Automated configuration management by replacing manual entry with CSV uploads, reducing resource effort and processing time by over **50%**.
- Improved loan app performance from **1 minute** to less than **10 seconds** using RabbitMQ and REST APIs, Replaced manual threading with **ThreadPoolExecutor** to improve concurrency management and performance.
- Delivered rapid production fixes for DB table locks, optimized caching for large datasets, and resolved RabbitMQ issues.

Project - Datavault

- Maintained an **ETL** process to validate and transform **Murex** data as per business logic and load it into MongoDB.
- Debugged and optimized bulk data loading into multiple MongoDB collections using **PyMongo** with memory-efficient processing, and additionally developed web scraping to visualize daily news from Google News.

Project - E-kyc Application

- Developed a Django REST API to extract data from identification cards using a prebuilt optimized **YOLOv5** model and store it in the database.
- Implemented a real time face detection model to capture and upload photos within the application.

Sutherland Global Services — Sep 2021 – Apr 2022

Associate CS Internet — *Chennai, TN*

- Customer Support Associate – Handled order, refund, and account inquiries for Amazon.ca customers.

Education

Master of Computer Applications — Aug 2024

Annamalai University — *Tamil Nadu, India*

B.Sc. in Physics — Apr 2019

S T Hindu College — *Nagercoil, Tamil Nadu*

Certifications & Achievements

Certifications : Python and Machine Learning from Perfect Plan B, including a hands-on project on Cancer Detection.

Achievements : Secured two onsite opportunities to Mumbai and the Philippines based on performance.