TRIPATJOT SINGH

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EDUCATION

Indian Institute of Technology Kharagpur — WB, India
B.tech + M.Tech, Agricultural & Food Engineering department; CGPA: 7.67 — 2018 - 2023

SKILLS

Back-end Technologies	**Expert**: Django REST Framework	**Proficient**: Python (Flask, FAST API)
Programming	**Expert**: C++, Python,	**Proficient**: Javascript, SQL
Databases	MySQL, MongoDB, Redis	**Version Control** : Git (Gitlab, Github)
Cloud Services	Microsoft Azure (Function App, Logic Apps, Data-Lake/Blob Storage), AWS (S3)	

EXPERIENCE

Senior Analyst - Backend Developer — Jun 2023 - present
Indian - PAC Consulting Private Ltd. — Hyderabad, India

Real-Time Resource Flow and Inventory Visibility Platform:
- Employing cutting-edge architecture featuring Django Rest Framework, JSON Web Token, and AWS S3, this solution showcases proficient utilization resulting in a 75% efficiency augmentation., ensuring scalability, security, and performance.
- Paradigmatic Shift from Excel-based to an automated system, resulted in a quantifiable error reduction of 40% overall.
- Implemented User-Centric design for transparent, contoured transactions, securing granular control and accountability.
- Ubiquitous real-time tracking of inventory, and comprehensive systems using DRF, assuring uninterrupted data visibility.

User Authentication and Activity Audit Log System:
- Led development of secure survey dashboard with Django Rest Framework & JWT, reducing security breaches by 20%.
- Engineered an efficient data management system utilizing Django ORM & SQL, delivering a 30% uplift in team output.
- Implemented intricate data extraction, yielding a 15% enhancement in operational efficiency while elevating user experience.

Software Developer - Intern — Jun 2022 - July 2022
Railtel Corporation of India Ltd. — New Delhi, India
- Orchestrated the development of an innovative inventory management portal for a Network Management System, utilizing Flask-SQL Alchemy and PostgreSQL, leading to a 25% decrease in processing time and ensuring real-time, accurate data.
- Achieved significant system scalability through strategic automation, enabling seamless software module integration with minimal configuration. This resulted in a 30% reduction in manual processes, solidifying database reliability and security.

Software Developer - Intern — April 2022 - June 2022
DAAS Agro Aromatics Export Ltd. — Haryana, India
- Pioneered a Proof of Concept integrating data processing across SAAS systems via Azure Web Services. Simulated software architecture for Workday, Rydoo, and NetSuite, ensuring a 20% boost in performance, reliability, and availability.
- Implemented Azure Logic Apps for optimizing streamlined workflows, successfully reducing processing time by 25%. Utilized Azure Cognitive Search's OCR, resulting in a 30% increase in extracting searchable text from multilingual images.

PROJECT

WhatsApp Clone — Jun 2021 - July 2021
Kharagpur Winter of Code - [Github](#)
- Constructed a real-time, bidirectional, user interface-driven data-sharing application leveraging Socket.io and ExpressJS.
- Integrated user-friendly features like room-specific lists, Send Message Bar, and real-time updates via the Geolocation API.

Task Manager APIs — July 2021 - August 2021
Self Project - [Github](#)
- Widespread backend app secures task data (description, timestamp) in a MongoDB database using JWT for authentication.
- Users can efficiently handle tasks through a paginated interface,SendGrid API sends emails for user entry/exit & feedback.

CERTIFICATIONS

- Software Architecture and Technology of Large - Scale Systems — Udemy — Certificate
- Applied Algorithms and Data Structure for Coding Competition — AlgoZenith — Certificate
- The Complete Node.js Developer Course (3rd Edition) — Udemy — Certificate
- Modern React with Redux — Udemy — Certificate