Nithin Kumar Reddy Tallapalli

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Executive Summary:

I have 7+ years of experience in Web application development with **Python, Django, Flask, MySQL, MongoDB, JS, Cloud platforms** and tools like Data-Studios, GIT, Bit Bucket, Jira in LINUX, Mac & Windows operating systems.

Technical Summary:

- Project development from scratch as a **Product Owner (PO),** and involved in module delivery, change management and release management work for a module as a primary point of contact in full scale products/solutions.
- I have worked in client location **Outside India** in one of my Telecom product developments for fast & smooth delivery to achieve the targets.
- Building Web applications with **Django/Flask** from **scratch**, specializing in **Forms & Model design, ORM**, managing **Multiple Databases & Schema design**. Skilled in writing **Custom Handlers**, designing scalable architectures, and implementing **class-based views** for clean, maintainable code.
- Extensive experience in relational database design and data retrieval with **MySQL**, and in one of my projects, I also worked with **MongoDB** to handle NoSQL data requirements.
- I also have experience with cloud technologies, including **AWS, AZURE & GCP** migration and Optimizations services like data storage, deployment, infrastructure and enhancing application performance and reliability in cloud environments.
- Building **RESTful API's** using **Flask** and **Django REST Framework** (**DRF**), with a strong understanding of backend development, and integrated client-side technologies and frameworks like ReactJS for seamless full-stack solutions.
- Experienced in **Automating** recurring tasks within applications by integrating custom management scripts into **Cron** or **Scheduling** tools, with expertise in building custom email service modules like **SendGrid**.
- Extensive knowledge in **Unit Testing** and Test-Driven Development (**TDD**), with a deep understanding of the Software Development Life Cycle (**SDLC**), ensuring quality and efficiency through each development phase with a focus on test automation and continuous integration.
- Developed comprehensive reports using visualization tools like **Data Studio**, integrating data from various sources including **Big Query**, **MySQL**, and **Google Sheets**.
- Experienced in **Code Reviewing** and **Refactoring** to improve code quality and maintainability, with a strong proficiency in version control tools like Git for efficient collaboration.

Technical Skills:

o **Languages**	:	Python, JavaScript, HTML, CSS
o **Frameworks**	:	Django, Flask, Django rest API, FastAPI, Unit Testing
o **Databases**	:	MySQL, MongoDB, PostgreSQL, Django ORM, Big Query
o **Operating Systems**	:	Linux, Mac, Window
o **Clouds Technologies**	:	AWS, GCP
o **Management Tools**	:	GIT, Bit Bucket, JIRA, Circle-CI, Confluence
o **Other Tools**	:	Docker, PyCharm, Post Man

Work Experience:

- Senior Software Engineer at Matilda Cloud, Bangalore   (Feb\2023 -- Present)
- Senior Software Engineer at Nous Infosystems, Bangalore   (May\2021 -- Jan\2023)
- Software Engineer at Melvault, Hyderabad   (April\2019 -- Feb\2021)
- Python Developer at Gridlex, Hyderabad   (April\2018 -- Mar\2019)

Education Qualification:

- Graduated from **Siddartha Institute of Science and Technology, (**Puttur), (**JNTUA**) in the year of 2017 with **Distinction**.

Project Profile:

Project #1: Optimize, Matilda Cloud   (Feb 2023 – Present)

    Matilda Cloud is an AI-driven cloud platform that automates full-stack discovery, migration, and optimization. Empowering enterprises to conduct secure, efficient, and high-speed digital transformations

Tech stack: Python, Django, Flask, SQL, MongoDB, JS, AWS, Azure

Contributions, Roles & Responsibilities:

- **Developed automated agent installation and system monitoring tools** to streamline deployment processes and enable real-time performance tracking across Linux environments.
- **Led development of cloud migration and optimization tools for AWS and GCP** using Python, AI integration to enable seamless transitions for large-scale enterprise environments.
- **Developed and maintained proxy management solutions** integrated with messaging **queues** and **caching** layers to enable secure, high-performance communication between distributed cloud components.
- **Initiated integration of Crew AI & MCP** to enhance intelligent automation and decision-making in cloud optimization workflows.
- **Designed and developed scalable RESTful APIs** using Python and Django, enabling seamless integration with front-end and third-party services.
- Developed and maintained few services like **Storage, User Management Migration** from one cloud service to other cloud services and supported on the optimization of their utilization.
- Developed production **API's** using modules **Swagger, custom logging** for easy debugging and proactive issue resolution.
- My services have been **utilized for the Verizon Europe segment for Migration and Optimization,** and I have been directly involved in the process for seamless data migration.
- Written separate script to **Discovery initiation for Storage and Databases** to evaluation of migration process along with AI generated optimization suggestions.
- Worked on **MongoDB and MySQL** database integration and optimization across distributed Linux environments.
- **Collaborated with cross-functional and front-end teams** to develop responsive, real-time features using REST APIs and Web Sockets, while proactively monitoring and optimizing service performance. Ensured code quality and deployment reliability through unit testing, structured logging, and **CI/CD** integration.

Project #2: Stockwell.ai, Nous Infosystems   (May 2021 – Feb 2023)

   Stockwell is an AI-based smart store that's equipped for anything - From lunch on the go to laundry-day supplies, The smart tech inside learns what's selling and what's not.

Tech stack: Python, Django, MySQL, Big-Query, JS, ReactJS, Send Grid, GCP, GraphiQL, GIT, D-Studios.

Contributions, Roles & Responsibilities:

- **Developed and managed AI-integrated web applications** for smart vending machines, delivering real-time features based on client-specific requirements.
- **Designed RESTful APIs with GraphiQL** to support machine learning model training and enhance data-driven functionality within the application.
- **Created dynamic, region-wise sales analytics reports** using Google Data Studio and integrated them into the web portal for client insights.
- **Automated batch data processing workflows** using custom Django management commands for CSV/JSON files, improving data ingestion and updating efficiency.
- **Integrated Slack messaging and SendGrid-based email automation** to streamline monitoring alerts and periodic report distribution.
- **Worked extensively with Google BigQuery**, building secondary tables, data streams, and SQL views for ML training, data retrieval, and QC operations.
- **Wrote unit tests and test suites** for new features to ensure application stability, code reliability, and high-quality deployments.
- **Performed code refactoring and created reusable Django ORM utilities** to boost application performance and support team-wide operational tasks.

Project #3: Banglalink (Telecom), Melvault   (April 2019 - Feb 2021)

   SaaS-based DBSS migration in the year 2020, with over 40.69 million subscribers base with 4G services with the help of VEON and Ericsson hardware support in Bangladesh, It was the catalyst in making mobile telephony an affordable option for consumers.

Tech stack: Python, Django, ORM, Micro-Services, Rest API, MySQL, JavaScript, GIT.

Contributions, Roles & Responsibilities:

- **Developed and integrated six core telecom features** Consumption, Adjustment, Services, Customer Details, SIM Change, and Bill Run using Python and Django frameworks.
- **Contributed to Mobile Network Portability (MNP) operations**, designing workflows that adhere to country-specific telecom regulations and compliance standards.
- **Implemented pre-check logic and Go-Flag mechanisms** for Port-In and Port-Out processes within a microservices architecture to streamline MNP operations.
- **Developed USSD code-based services** to enable balance checking, sharing, conversion, and activation using structured telecom instruction formats.
- **Built RESTful APIs and HTTP communication layers** to support data exchange between microservices and telecom hardware interfaces.
- **Created custom Django management commands** for batch data updates and automated maintenance tasks across multi-database environments.
- **Delivered critical hotfixes and performance optimizations** for a large-scale system supporting over 40 million users, operating on 16 servers and 11 microservices.
- **Provided client mentoring and operational support post-GoLive**, assisting in BABY-Sitting and delivering SQL scripts and automation tools during MOP windows.
- **Mapped physical and logical telecom inventory**, creating real-time, standards-compliant logical inventory views aligned with telecom infrastructure.

Project #4 - Dexur, Gridlex   (April 2018 - Mar 2019)

DEXUR (U.S Medical) is a data-driven hospital & healthcare news & research service. We perform in-depth data analyses, examining large public & proprietary databases such as medical claims data to produce news for hospitals, physicians & U.S regions.

Tech stack: Python, Django, PostgreSQL, AdWords.

Contributions, Roles & Responsibilities:

- **Led development of E-Pose**, a targeted outreach system that auto-generates and sends strategic email reports and rank cards to U.S. physicians based on specialty and performance.
- **Built dynamic, region-based physician ranking dashboards** using Django and Python, visualizing surgery and visitation metrics at county and regional levels.
- **Analyzed ICD and DRG datasets** to map diagnoses and procedures, transforming raw data into client-ready reports and insights using Python.
- **Performed drug impact analysis on patient outcomes**, querying and aggregating data from MySQL to generate actionable reports for pharmaceutical clients.
- **Automated Google AdWords and Site Maps submissions** using Python scripts to monitor traffic and optimize visibility across digital channels.
- **Integrated third-party APIs** for comparative analysis of drug portfolios, enhancing client decision-making on treatment effectiveness and market positioning.

I hereby declare that the information furnished above is true and correct to the best of my knowledge

Date:

Place: (Nithin Kumar Reddy T)