Gopi Kiran Kommineni

Software Developer

Phone +1 (657) 443-5134 | Email: kominenigopikiran.98@gmail.com | LinkedIn.

Professional Summary

- Around 4 years of experience as a **Python** Developer, showcasing a profound grasp of technology trends and proficiency in intricate technologies. Effectively analyzed, designed, developed, tested, implemented, supported, and maintained. Proficient in both front-end and back-end development, employed a diverse range of frameworks including Django, Flask, Angular, Node.js, and more to craft comprehensive web solutions.
- Accomplished in implementing server-side rendering, utilizing HTML/CSS, **RESTful** APIs, and MVC design patterns within Django and Node.js frameworks.
- Skilled at developing intuitive Managed interfaces through **Python** and **Django** view controller and templating language.
- Proficient in applying Agile and **SCRUM** methodologies to optimize project development, ensuring seamless collaboration, adaptability, and on-time delivery of high-quality software solutions.
- Demonstrates extensive experience in developing Web Services using Python, with a strong grasp of protocols like SOAP and REST.
- Expertly manages data with XML, JSON, and XSL within Django and Python applications for structured data management and dynamic content generation.
- Skillfully sets up **Continuous Integration** (CI) pipelines for Flask applications using tools such as Jenkins and Travis CI, automating testing and deployment processes.
- Proficient in working with both relational databases (MySQL, MS SQL Server, and Oracle) and NoSQL databases (**MongoDB**), ensuring efficient data organization and retrieval.
- Specializes in geospatial data processing and NoSQL databases, pioneering innovative geospatial query processing and data solutions.
- Well-versed in cloud technologies, particularly the AZURE ecosystem: **AZURE VIRTUAL MACHINES**, **MANAGED DISKS**, **Functions**, **SERVICE BUS QUEUES, BLOB STORAGE**, and **RESTful.**
- Prioritizes software quality by implementing comprehensive test suites with **Pytest** and **PyUnit**, ensuring code reliability and minimizing post-release issues.
- Proficiently manages DevOps practices, utilizing Git, **Pytest**, Maven, Jenkins, Gradle, and more to automate processes, streamline testing, and achieve continuous integration and deployment.
- Proficient in cloud technologies, with hands-on experience in deploying and managing applications on cloud platforms like **AZURE** & **AWS**.

Experience

Full Stack Developer **Feb 2023- Current**

Nationwide Insurance, Scottsdale (AZ)

- Utilized multithreading in Python to optimize data-intensive tasks, to achieve reduction in processing time, ultimately enhancing application responsiveness.
- Employed **Django**, a **Python** web framework, to create **RESTful** APIs, improving communication among software components and accelerating the implementation of new features.
- Created innovative Python scripts for extracting data from **HTML** and **JavaScript** files, streamlining data processing, and reducing processing time by 17%.
- Employed the **PyUnit** framework for rigorous unit testing, leading to a substantial 15% decrease in post-release bug reports and ensuring software reliability.
- Designed and implemented an advanced chatbot AI using Python, integrating Natural Language Processing (NLP) libraries such as NLTK and spaCy.
- Utilized Python for scripting assignments, including crafting a manual backup system to automate processes, enhance efficiency, minimize manual errors, and routinely backup critical data.
- Applied responsive design principles in **React.js** to ensure optimal user experience across various screen sizes and devices.
- Engineered robust **RESTful** APIs in Python, incorporating advanced features like token-based authentication and rate limiting, resulting in a 25% improvement in application security and dependability.
- Leveraged Python and Django to seamlessly integrate with jQuery UI, elevating the user experience and content management, leading to a 20% increase in user satisfaction.
- Designed and developed a data migration framework that improved performance from 100 seconds to 45 seconds, enabling efficient data migration from **MongoDB** to Oracle.
- Introduced geospatial queries and indexing in **MongoDB** for location-based applications, achieving a remarkable 30% acceleration in geospatial query processing.
- Integrated **AWS Lambda** functions into the existing infrastructure, enabling serverless computing and reducing operational overhead by automatically scaling resources based on demand.
- Leveraged cloud services such as Azure Data Factory, Azure Synapse Analytics, **AKS**, Spark, **AZURE** Glue, and **AZURE Functions** to build scalable and efficient data processing pipelines in Python.
- Implemented continuous integration (CI) and continuous deployment (CD) pipelines using Python and Jenkins, reducing deployment errors by 10% and expediting release cycles.

System Engineer | Software Developer **May 2019- Sep 2021**
TCS (Tata Consultancy Services), Bangalore

- Orchestrated server-side logic and data processing routines using Python to manage intricate network-related tasks, ensuring a 15% boost in back-end functionality and responsiveness.
- Utilized **Python** for scripting assignments, including crafting a manual backup system to automate processes, enhance efficiency, minimize manual errors, and routinely backup critical data.
- Constructed backend **APIs** using Python to facilitate communication between the frontend and the database, allowing for data retrieval and modification.
- Implemented **RESTful** communication between the front end (React.js) and back end (Python/Django) for seamless data transfer and real-time updates.
- Visualized complex systems hierarchically in **Python**, establishing components and subcomponents, and engineered a suite of library functions customized to user demands, boosting system manageability and usability by 8%.
- Engineered **Python APIs** to capture and document array structures within the processor at failure points, streamlining debugging and troubleshooting processes, and reducing issue resolution time by 10%.
- Spearheaded the design, development, and implementation of robust APIs, ensuring seamless integration and data flow. Also, harnessed **Angular** for an enhanced user experience.
- Embraced the iterative development approach of **Agile**, continuously refining and improving Python code and application features based on feedback from stakeholders and end-users.
- Developed and maintained stored procedures and functions in **Oracle (PL/SQL)**, encapsulating business logic within the database to bolster security and data consistency.
- Took a pivotal role in optimizing **SQL** queries alongside Python scripts, resulting in a 5% enhancement in database query performance and data retrieval speed.
- Employed web frameworks like **Django** to streamline backend development, leveraging pre-built components for routing, authentication, and database interactions, expediting the development process.
- Implemented comprehensive test suites using **Pytest** and **PyUnit**, encompassing unit tests, integration tests, and end-to-end testing to uphold software quality.

Skills

Languages:
Python, Java, C++, SQL, JavaScript, TypeScript
Framework & Library
Pandas, NumPy, Matplotlib, .Net, Natural Language Processing, Scikit-Learn, Seaborn, Flask, React.JS, Django, GraphQL
Tools:
Airflow, PySpark, Docker, Kubernetes, Git

Databases:
Snowflake, Azure Data bricks, SQL Server, Azure SQL Database, MongoDB
Cloud Services:
Azure Data Factory, AWS, AWS Lambda, AWS EC2, Azure Synapse Analytics, AKS, Spark, AZURE Glue
Shell Scripting:
Unix shell scripting, Power Shell, Bash Shell.

Education

Master of Science in Computer Science **May 2023**
California State University, Long Beach

Bachelor of Technology in Computer Science **May 2019**
DVR & Dr. HS MIC College of Technology (Jawaharlal Nehru Technological University)

Projects

GetSetGO (Trip & Vacation App) (CSULB) —Java, JavaScript, ReactJS, MongoDB **Apr 2022**

- Search, bid & book group trips, vacation homes, & day rentals.
- Tech stack: Java (backend APIs & servlets), SQL/MongoDB (server), ReactJS/NodeJS (dynamic frontend).
- Focus: Interactive user experience, bidding for group trips, proper backend functionality.

Twitter Sentiment Analytics-Python, Naïve Bayes Algorithm, **Feb 2019**

- Remove redundant information from these collected tweets and store the formatted tweets in MongoDB database.
- Perform Sentiment Analysis by using Naive Bayes algorithm to predict the sentiment of people on the tweets stored in the database.
- Classify the nature of the tweets viz. positive, negative, and so on using the applied sentiment analysis.

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Development Project (Student Score Tracking System) —Python, Django, Flask. **Sep 2018**

- Created a system that enables students to calculate their cumulative scores and maintain their GPA easily.
- Utilized user-friendly web frameworks like Django and Flask to simplify the development process.

Certifications

Azure:
Azure Developer Associate