# Sunil Kumar Reddy S

**Full Stack Developer**

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## SUMMARY

"Detail-oriented Full-Stack Developer with 3 years of experience in designing, developing, and maintaining robust applications using Python and Golang. Skilled in leveraging Python for web development (with Django, Flask) and data analysis (using Pandas, NumPy), and utilizing Golang for building high-performance, scalable systems and backend services. Experienced in integrating Python and Golang for seamless application workflows, including creating and consuming RESTful APIs and ensuring efficient cross-language communication. Adept at developing microservices architectures, combining the strengths of Golang's concurrency and Python's flexibility to solve complex business challenges. Proficient in full-stack development, with a strong background in backend technologies (Python, Flask, Golang), frontend development (React.js, HTML, CSS, JavaScript), and database management (MySQL, PostgreSQL, MongoDB). Comfortable using Git for version control, following Test-Driven Development (TDD) practices, and collaborating within Agile and Scrum environments. Skilled in system design, process automation using Python, Shell scripting, and Golang optimization, as well as CI/CD pipeline integration. Integrated Azure cloud services for application deployment, using Azure App Services and Blob Storage for hosting and managing large data. Automated deployment and infrastructure management with Azure DevOps, ensuring seamless CI/CD pipelines for both Python and Golang applications. Passionate about continuous learning, code efficiency, and optimizing development workflows through best practices in both Python and Golang."

## EDUCATION

**Bachelor of Engineering - Electronics & Communication Engineering**                 **2019 - 2023**

Sreenivasa Institute of Technology & Management

Studies, Chittoor, Andhra Pradesh

CGPA: 7.33/10

## SKILLS

- **Programming Languages:** Python, Golang, SQL.
- **Frameworks s Tech Stacks:** Django, Flask, React.js.
- **Architectures s Design Patterns:** MVC Architecture, Layered Architecture.
- **Cloud Platforms:** Aws, Azure.
- **API Architectures s Protocols:** RESTful APIs, GraphQL.
- **Databases s Data Management:** PostgreSQL, MySQL Workbench, MongoDB.
- **Operating Systems:** MS Windows, Linux, Unix
- **Other Tools:** Docker, Supabase (BaaS), Firebase, VS Code, Git, GitHub, Postman, ChatGPT, Gemini AI, Agile Methodology

## WORK EXPERIENCE

**Full Stack Web Developer, ACENTUS INFO Solutions Pvt Ltd**                 **Jun 2022 – Till date**

- Designed and developed web applications using Python, Django, React.js, MySQL Workbench, PostgreSQL, and Golang.
- Migrated databases from MySQL to PostgreSQL, enhancing performance and scalability while integrating Golang services for more efficient backend processing.
- Developed and maintained RESTful APIs for data exchange between internal and external systems, using Python for data handling and Golang for high-performance backend processing.
- Integrated AJAX and React.js to create dynamic, responsive front-end interfaces, improving the user experience with real-time data updates.
- Utilized MongoDB for storing JSON data and processed large datasets using Python (Pandas) and Golang for high-speed data processing.
- Implemented Test-Driven Development (TDD), creating unit and integration tests for both Python and Golang services to ensure robust and reliable application behavior.

- Automated integration testing using Python scripts and Golang testing frameworks to validate REST APIs and system functionality.
- Addressed security concerns by identifying SQL injection vulnerabilities, optimizing SQL queries, and securing Golang services with authentication and encryption methods.
- Enhanced backend performance by leveraging Golang's concurrency model for handling high-load tasks, improving response times for key services.
- Followed Agile methodologies, collaborating with cross-functional teams to meet project goals, ensuring smooth integration of Golang and Python components.
- Managed version control with **Git** and **SVN**, and automated deployment processes with **Jenkins** for continuous integration.

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## MAJOR PROJECTS

**Project #2**                                              **June 2023 – Till date**

        **Client: Data Bricks San Francisco, CA**
        **Role  : Full Stack Developer**

**Responsibilities:**
- Built several applications, including Staff Directory and Employee Record Maintenance systems, to enhance organizational performance.
- Designed and developed the entire application using Python, Django, Golang, MySQL Workbench, and Linux, and deployed it using Jenkins for continuous integration.
- Integrated Golang for high-performance backend services, improving the speed and scalability of key business processes, alongside Python for application logic and web framework tasks.
- Worked with Python OpenStack APIs for managing cloud infrastructure and Golang for building efficient, concurrent services that interact with OpenStack for managing virtual resources.
- Leveraged **Azure** services like App Services, **Blob Storage,** and SQL Database for scalable application hosting and data management.
- Automated infrastructure provisioning using **Azure Resource Manager** templates and utilized **Azure DevOps** for CI/CD pipelines.
- Ensured secure access with **Azure** Active Directory and optimized cloud costs using **Azure** Cost Management.
- Deployed microservices using **Azure** Kubernetes Service (AKS) for container orchestration.
- Developed applications primarily in a UNIX environment and familiarized with UNIX commands for system administration tasks.
- Implemented AJAX in the front-end, using React.js, to enable partial page updates without the need for a full page reload, enhancing user experience.
- Used Python scripts to parse XML documents and utilized Golang for optimized processing of XML data and interaction with databases.
- Developed Web Services using REST to send and receive data in XML format, integrating Golang for handling high-volume requests efficiently.
- Improved code reuse and performance by applying design patterns in both Python and Golang, ensuring maintainability and scalability.
- Integrated AWS services such as EC2, Lambda, and S3 to enhance application scalability and performance.
- Automated infrastructure deployment using AWS CloudFormation and managed database services with AWS RDS.
- Implemented CI/CD pipelines with Jenkins and AWS CodePipeline for streamlined development and deployment processes.
- Utilized regular expressions to meet specific pattern-matching requirements in Python for data validation and in Golang for string manipulations.
- Developed applications that use MongoDB for storing JSON data, implementing Golang for rapid data processing and efficient query handling.
- Managed large datasets using Pandas in Python and Golang for data aggregation and manipulation, ensuring smooth data workflows with MySQL Workbench.
- Created unit test and regression test cases for both Python and Golang applications using Django's unit testing libraries and Golang's testing framework to ensure application reliability and robustness.
- Worked through the entire lifecycle of projects, including design, development, deployment, testing, implementation, and support, integrating both Python and Golang components for a seamless solution.
- Maintained version control of scripts and codebase using SVN, ensuring proper versioning and collaboration across teams.
- Applied Object-Oriented Design (OOD) principles in Python and Golang for better structure and maintainability, while proactively debugging and optimizing both codebases.
- Collaborated effectively with managers and development staff to ensure project goals were met within expected timelines.
- Environment: Python, Django, Golang, SQL, React.js, Azure, AJAX, REST, JavaScript, MySQL Workbench, MongoDB, OpenStack APIs, UNIX, Linux, XML, Sublime Text, Jenkins, SVN.

# Project #1                                                    **June 2022 – May 2023**

**Client: I-Doc Processor**
**Role  : Full Stack Developer**

**Responsibilities:**
- Developed Python-based automated test cases to send and receive messages, test various interfaces, and validate REST APIs. The automated tests support integration testing by creating orders, routing them, processing fills, and generating success or error reports, which are sent via email.
- Designed and implemented application architecture based on requirements using Django, with Golang integrated for handling concurrent, performance-intensive tasks like large data processing and backend operations.
- Conducted requirement analysis and project timeline estimations to ensure timely delivery of the application, incorporating both Python and Golang components.
- Developed internal web applications using Python, Django, HTML, CSS, JavaScript, and integrated Golang for efficient backend processes, such as data manipulation and real-time event handling.
- Wrote Python code embedded with JSON and XML to produce HTTP GET requests and parse HTML data from external websites, using Golang for parallel data processing tasks to enhance speed and scalability.
- Involved in designing, constructing, and documenting various Object-Oriented applications using UML and Rational Rose, with an emphasis on integrating both Python and Golang components for optimized system performance.
- Integrated **Azure** cloud services for application deployment, using **Azure** App Services and **Blob Storage** for hosting and managing large data.
- Utilized **Azure** SQL Database for efficient data management and migration, optimizing performance and scalability.
- Monitored application health and performance with **Azure** Monitor and Application Insights, gathering analytics to enhance system reliability and user experience.
- Successfully migrated the Django database from MySQL Workbench to PostgreSQL, ensuring complete data integrity, and integrated Golang for managing complex queries and improving data handling efficiency.
- Developed the presentation layer/client-side using HTML, XML, and CSS, with dynamic content rendered through Golang-powered backend services to enhance user interaction.
- Implemented Test-Driven Development (TDD) strategy for the project, with Python used for unit testing and Golang for performance testing and concurrency validation.
- Wrote SQL queries and Stored Procedures for accessing and manipulating data in the PostgreSQL database, leveraging Golang to optimize database interactions and improve response times.
- Worked with Git repositories, writing Git hooks and post-commit scripts to trigger Jenkins builds on commits and customized build status notifications, ensuring smooth CI/CD pipelines for both Python and Golang codebases.
- Developed Python scripts to identify vulnerabilities, including SQL injection risks, and performed performance analysis of SQL queries. Golang was used for implementing security features like input validation and encryption for API communications.
- Authored and maintained automation scripts in Python, Bash, PowerShell, and Golang, integrating them into CI/CD processes for continuous deployment.
- Developed and executed the User Acceptance Testing (UAT) portion of the test plan, ensuring functionality across both Python and Golang-powered features.
- Followed Agile methodology, using Jira for tracking bugs, tasks, and project progress, and collaborated in sprints for continuous delivery.
- Environment: Python, Django, Golang, React, **Azure**, HTML, CSS, XML, TDD, SQL, PostgreSQL, Jenkins, Linux, Agile, Git, Sublime Text, Jira, Bash, PowerShell.

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## LANGUAGES

- English - Speak, Read, write
- Telugu - Speak, Read, Write