

## AMITH LAKSHMISHA

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### PROFESSIONAL SUMMARY

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- Seasoned Full Stack Developer with 6+ years of experience in analysis, design, development, testing, support, and implementation of diverse standalone and client-server enterprise applications.
- Proficient with front-end development technologies like **HTML, XML, CSS, TypeScript and JavaScript**, complementing extensive experience in developing web-based applications using **NodeJS, Express, Python and Flask**.
- Expertise in Agile Methodologies, Scrum stories, and sprints, navigating Python-based environments while excelling in data analytics, data wrangling, and Excel data extracts.
- Strong grasp of Object-Oriented design, proficient in various Design Patterns, and adept in UML.
- Proficiency in SQL and NoSQL databases, **including MS SQL, MySQL, MongoDB and Couchbase**, coupled with hands-on experience in UNIX and Linux Kernels.
- Proficient in DevOps methodologies, specializing in Ansible, Cloud Administration, Infrastructure Deployment, Terraform, and Kubernetes orchestration.
- Experienced in various testing types, including Unit testing, Integration testing, User acceptance testing, and Functional testing.
- Skilled in writing SQL Queries, Stored procedures, functions, packages, tables, views, and triggers, ensuring robust database management.
- Adept at writing technical and functional documents aligned with business requirements, with a strong understanding of Agile and Scrum methodologies.
- Proficient in Windows, UNIX, and LINUX platforms, with excellent analytical and communication skills, enabling effective interaction with stakeholders at all levels.

### TECHNICAL SKILLS

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- **Programming Languages/Framework** Python, Go, JavaScript ,Java
- **Backend/Web:** HTML, Express, CSS3, Angular, React, Python Flask, Python Django
- **Logging and Dashboarding:** Grafana Labs, Datadog, MS Power BI, Tableau
- **Devops Tools:** Jenkins, CircleCI, Ansible, Terraform
- **Database/Tools:** SQL, PL/SQL, NOSQL, MongoDB, Git, DynamoDB, Couchbase, Redshift, SQLite3
- **Python Libraries:** Pandas, Numpy, urllib, matplotlib, UnitTest, JSON, CSV, XML, XLS, ElasticSearch, Boto3, PySpark, couchbase, geocoder, iso8601, openpnl, pika, pydantic, requests, s3fs, Streamlit
- **Python Framework:** Flask, Django

### PROFESSIONAL EXPERIENCE

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#### Kforce (Fidelity Investments)

Senior Full Stack Engineer

Smithfield, RI

07/2024 – Present

- Developed and maintained a scalable chatbot application, leveraging **Angular** for frontend development and **Python FastAPI** for backend integration.
- Designed and implemented a **Neo4j** graph database to efficiently store and manage data, enhancing data retrieval and relationship mapping.
- Leveraged Generative AI (GenAI) to automate decision-making processes within the chatbot, resulting in improved response accuracy and user experience.
- Employed best practices in RESTful API development and graph-based data modeling, improving the chatbot's overall performance and scalability.

## FliptRx, LLC

Senior Full Stack Engineer

Jersey City, NJ

11/2021 – 04/2024

- Led and actively contributed to development and data engineering initiatives, specializing in **React and Python** development. Engineered robust single page application to render information in seconds for concierge to respond to the claim requests and bringing the response time down by 50%
- Python APIs using Flask to facilitate seamless integration across multiple projects, enhancing overall system functionality with a focus on RESTful architecture. Used **RabbitMQ** for sending out messages/notifications to customers.
- Played a central role in architecting an AI-powered question-answering portal using OpenAI's API and collaborated with stakeholders and designers to create an intuitive user interface for portal using **Streamlit**
- Spearheaded the development of a RBAC framework and Approval process for the drug list using react and **JSON rules engine** and rule chaining to handle complicated multilevel approvals.
- Applied advanced SQL techniques for database design and management, data modeling, and implementing a forward-predicting model. This model, running alongside the production server, proactively identified potential issues caused by system changes, offering real-time alerts and recommendations to the development team.
- Added business-level validations in between the ETL process to assure the authenticity of the data and catch errors before they reach the data warehouse. Adopted Alembic as a version control for data warehouse changes, helping in avoiding manual changes being made to the Data Warehouse.
- Successfully reduced manual errors by 30% through the implementation and management of automated Python scripts. These scripts streamlined repetitive tasks, eliminated redundant data entry, and generated reports across multiple projects.
- Demonstrated a strong command of IT infrastructure components, including Linux and Windows Server OS, MS SQL, and Oracle databases. Applied **Python** development skills to troubleshoot and problem-solve issues related to networks, load balancers, storage, and middleware.
- Engaged in daily responsibilities to engineer CI/CD pipelines using CircleCI to automate testing, builds and deployments for enhanced workflow not limited to **Docker, Kubernetes, Datadog**, and more, showcasing a versatile skill set and the ability to navigate diverse technologies essential for seamless integration and robust system operations.
- Utilized **Elasticsearch** to seamlessly migrate data from **Couchbase**, establishing a robust snapshot mechanism to track real-time changes in Couchbase documents within Elasticsearch. Developed a Python-based auditing tool leveraging Elasticsearch's capabilities, enabling users to input keywords and access comprehensive edit histories of documents, streamlining data tracking and auditing processes.

**Environment & Skills:** Microsoft office, S3, Docker, Kubernetes, Tableau, Apache Airflow 1.10.9/2.5.1, Python(Pandas, PySpark, Boto3, urllib3, elasticsearch and more), Vscod, Couchbase, Confluence, Kubernetes, CircleCI, Datadog

## United Nations

Full Stack Engineer

NYC, NY

05/2019 – 10/2021

- Employed **Node.js** framework proficiently to automate the extraction and parsing of PDF and XML meeting files, seamlessly integrating them into **MongoDB** database systems. This innovative implementation resulted in a remarkable 80% reduction in manual processing, streamlining workflow efficiency and enhancing overall productivity.
- Spearheaded the development of a dynamic Single Page Application (SPA) user interface using **Angular**, empowering users across various roles to effortlessly access, visualize, and export data into Excel format. This initiative facilitated seamless data interaction, enhancing user experience and enabling efficient data management across diverse organizational functions.
- Implemented comprehensive logging mechanisms and customized **Splunk** queries to meticulously capture and analyze data, enabling the extraction of actionable insights vital for informed decision-making. Additionally, developed intuitive dashboards within Splunk to visually represent complex datasets, facilitating enhanced understanding and strategic utilization of critical information resources. This proactive approach significantly

bolstered operational efficiency and empowered stakeholders to make data-driven decisions with confidence.

- Orchestrated the establishment of a robust Continuous Integration/Continuous Deployment (CI/CD) pipeline for a cloud-native RESTful application leveraging Ansible automation and seamlessly integrating with AWS services via GitLab, **including CodeCommit, CodePipeline, CodeDeploy, ECS, and ECR**. This streamlined infrastructure not only facilitated swift deployment but also significantly slashed application build and test duration by an impressive 50%. This initiative exemplified a proactive approach towards optimizing development workflows, enhancing productivity, and ensuring rapid and reliable delivery of high-quality software solutions
- Seamlessly integrated **Python scripts** to facilitate the migration of data from Lotus Notes to MongoDB, ensuring smooth and efficient data transition. Leveraging advanced testing frameworks including Karma, Jasmine, and Cucumber, conducted comprehensive unit testing to validate the functionality and integrity of the migration process. This meticulous approach not only ensured the reliability of data migration but also bolstered the overall robustness of the application. By embracing best practices in testing methodologies, contributed to the delivery of a resilient and high-performing software solution.

**Environment & Skills:** Node, Angular, Express, MongoDB, Splunk, AWS tools (CodeCommit, CodePipeline, Codedeploy, ECS, ECR), Karma, Jasmine

## MCG LLC

Software Engineer

Remote

08/2018 – 04/2019

- Designed and developed an AI backed console for the ServiceNow application to interact with vRealize VMware tool for provisioning, control and monitoring of virtual machines based on user data to increase cost efficiency by 20 %.
- Built a random forest regression model to predict the type, size, and flavor of VMware instance with an accuracy of 82%.
- Automated the NGINX server installation on VMs using ServiceNow MID server to reduce application build time 10%.

**Environment & Skills:** JavaScript, Python, vRA, Jupyter Notebook

## ServiceNow

Technical Engineer

Orlando, FL

05/2017 – 06/2018

- Worked as an intern to develop auto-update notify application and resolved multiple bugs for the service now client application.
- Built an application to monitor live instances with pre-configured rules to push update email notifications by continuously parsing the Event logs and trigger conditions to increase the quarterly patch program efficiency by 20%.
- Worked with cross-functional teams to resolve several bugs pertaining to instance monitoring and logging application.

**Environment & Skills:** JavaScript, Splunk, Datadog.

## ACADEMIC PROJECTS

### University of Central Florida

Web Developer

Orlando, FL

01/2017 – 05/2017

- Collaborated with a team of 15 in Agile environment to develop a social networking site which connects the Influencers with Brands.
- Extensively worked on front-end **HTML** implementation of the web app for enhanced user experience using technologies like **CSS, HTML, Angular and MongoDB**.
- Created email notifications for the influencers with updates on new brands.
- Implemented payment method using **Stripe API** and backend operations using **NodeJS, Express JS and PostgreSQL**.

## EDUCATION

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**University Of Central Florida**

Master of Science - Computer Science (GPA: 3.7/4.0)

Orlando, FL  
08/2016-05/2018

**Siddaganga Institute of Technology**

Bachelor of Technology – Computer Science (GPA: 8.7 /10)

India  
09/2012-06/2016