

Srinivasa Rao N

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Experience Summary:

- I am a Technical Lead with 14 years of experience in software development with MTech in (Computer Science)
- Developed **Microservices** using **Python & Java** with frameworks like **Flask, Django & Spring Boot**
- Experience in front end technologies like **JavaScript(ES6) & Angular**
- Experience in integrating **OIDC/OAuth2** flows with both front end(Angular) & back-end API server components
- Designed and setup **Service Mesh** using Cloud Native technologies like **Istio, Kubernetes, Docker, Helm charts**
- Experience with **DevOps & GitOps** model and tools
- Implemented CI/CD pipelines involving **Jenkins X/GitOps, Git, Bit Bucket, Jenkins, Docker, Helm**, etc
- Involved in **Blue/Green and Canary** deployments
- Knowledge on public cloud platforms like **Google Cloud(GKE) & Microsoft Azure**
- Experience in Agile Scrum Methodologies
- Exposure to Cloud design patterns and SOLID, 12 factor, Gof4 design patterns
- Experience in prototyping solutions quickly, and able to collaborate with others in crafting and implementing my technical vision
- Worked closely with geographically distributed teams and collaborated with cross teams to define, implement and consume services/components/modules

Software Skills:

Programming Languages	Python, Java
Microservices frameworks	Flask, Spring Boot
Cloud Native/Container technologies/Tools	Kubernetes, Docker, Istio, Helm, Prometheus, Grafana, Zipkin
Development Tools	PyCharm, VS Code, GIT, SVN, Jenkins, Jupyter Notebook, Spyder, Vim, IntelliJ IDEA, Eclipse, Maven
Automation Testing	Selenium, JUnit, TestNG
Operating Systems	Linux, Windows
Database	MongoDB, Redis, Oracle, MySQL
Machine Learning	Keras, TensorFlow, Scikit-learn, Pandas, NumPy, matplotlib

Awards/ Recognitions:

- Received Dell Championship & Dell spotlight awards
- Received Pratibha award from AP Govt on securing 7 th Rank in MCACET

Education:

MTech (CS), JNU - New Delhi (2002-2004)

MCA, JNU - New Delhi (1999-2002)

Professional Experience

Tech Lead: AppOrchid (Nov 2018 – May 2019)

Project Domain	Public Utility
Sub Domain	Water & wastewater
Project Name	Cloudseer
Clients	American Water Works
Role	Tech Lead
Environment/Tools	Java, Python, Flask, Spring Boot, RabbitMQ, Git, Bitbucket, Linux, Jenkins X, Swagger, Angular, Bootstrap, MongoDB Angular OAuth2, Spring Security Kubernetes, Istio, Helm, Docker, Jenkins X/GitOps

Responsibilities:

- Implemented Open Id/OAuth2 flow for front-end(Angular) components and back-end (Spring Boot, Python Flask) API servers
- Worked on implementing microservices on Kubernetes/Istio Cluster
- Generated Helm charts to configure resources on Kubernetes applications and all of its components, such as Deployments, ConfigMaps, Services, etc
- Built CI/CD pipeline with Jenkins X/GitOps, Git, Bit bucket, Jenkins, Helm
- Established Blue/Green & Canary deployment strategy

Software Senior Engineer: Dell Secureworks(Oct 2013 – May 2018)

Project Domain	Cyber Security
Sub Domain	Managed Security Services
Project Name	Foresee
Clients	Credit Suisse, Best Buy, AXA, BANA
Role	Tech Lead
Environment/Tools	Java, Python, Flask, Spring Boot, Spring, Mybatis, Eclipse, IntelliJ IDEA, Git, Bitbucket, Linux, Maven, Jenkins, Swagger, Angular, Bootstrap MongoDB, Redis, Oracle, MySQL Cloud: Kubernetes, Helm, Docker

Responsibilities:

- Implemented Microservices & RESTful web services using Flask, Spring Boot, Swagger
- Built & deployed Microservices using cloud technologies like Kubernetes, Helm, Docker, etc
- Involved in Blue/Green deployments
- Worked as full stack engineer implementing both front-end & back-end components
- Adopted Agile Scrum methodologies using project management tools Jira/confluence and version control tools like Bitbucket, Git, SVN
- Worked closely with Product managers, cross functional teams
- Performed code reviews & coached team on best practices
- Posted technical blogs on internal confluence pages & participated in Dell hackathons
- Applied software Design Patterns, Data Structures, Algorithms
- Performed Data Analysis using statistical techniques (EDA, Hypothesis Testing, PCA, etc.) on Dell Secureworks's proprietary time series security events data using Python libraries (Scipy, pandas, matplotlib, numpy, etc.)
- Applied Deep Learning using LSTM model for DGA (Domain Generation Algorithm) detection using Keras, TensorFlow
- Trained and tested data using various Machine Learning models/algorithms like Linear & Logistic Regression, Naive Bayes, Decision Trees, Random Forest, SVM, KNN

Senior Tech Lead: HTC Global (Apr 2013 – Oct 2013) (Worked at Dell campus)

Project Domain	Cyber Security
Sub Domain	Managed Security Services
Project Name	Vail/Threat Intelligence
Clients	Credit Suisse, Best Buy, AXA, BANA
Role	Tech Lead / Developer
Environment/Tools	Python, Selenium, Java, TestNG, SVN, Linux, Electric Flow, Jenkins

Responsibilities:

- Worked on threat intelligence service features
- Designed and Implemented automation framework using Python, Java
- Migrated the automation framework from JUnit to TestNG
- Integrated the automation to Electric Commander for daily regression

Team Lead: Accenture (Jun 2011 – Jan 2013)

Project Domain	Oil & Gas
Sub Domain	Oil & Gas
Project Name	RM&D
Clients	SolarTurbines
Role	Team Lead
Environment/Tools	Java, J2EE, Spring, WebSphere 6, Oracle, RAD 7.5, Windows, gradle

Responsibilities:

- Created Technical Design documents for new features
- Implemented new features using Java/J2EE stack
- Used Gradle for migration of build files from ant build.xml files to build.gradle format
- Participated in code reviews, demoed UAT to PM and Business Analysts

Tech Lead: Mahindra Satyam (May 2006 – Jun 2011)

Project Domain	Life Sciences
Sub Domain	Research Alliance
Project Name	EndNote Web
Clients	Thomson Reuters
Role	Tech Lead
Environment/Tools	Java, Struts, Tomcat, MySQL, Bugzilla, Perforce, Linux, C++

Responsibilities:

- Actively participated in meetings with Product Managers, Business Analysts
- Created design documents using Rational Rose
- Designed and implemented few web services
- Worked on XML parsing using JAXB, SAX parsers
- Performed a rigorous unit testing and resolved several data accuracy issues

Senior Software Engineer: Motorola (Nov 2005 – May 2006)

Project Domain	Telecom
Sub Domain	NGN Platforms & Portals
Project Name	MSS
Clients	PBTL
Role	Developer
Environment/Tools	Java, Struts, Tomcat, Postgres, Linux, C++

Responsibilities:

- Involved in the Production Support
- Interacted with the Customers, Development and Testing Teams
- Worked on production issues by collecting & analyzing core files, logs

Senior Member Technical Staff: Persistent Systems (Sep 2004 – Oct 2005)

Project Domain	Telecom
Sub Domain	NGN Platforms & Portals
Project Name	VVEMS
Clients	Veraz Networks
Role	Developer
Environment/Tools	Java, Struts, Servlets, Tomcat, MySQL, Solaris, Ant, JUnit, ClearCase, ClearQuest

Responsibilities:

- Developed Service & Data access layer logic using JDBC and MySQL
- Involved in new features/fixes deployments to Test, Staging and Production environments
- Participated in maintenance and production support

Associate Software Engineer: ComViva (Jan 2004 – Aug 2004)

Project Domain	Telecom
Sub Domain	Core and Access Network
Project Name	SMSC
Clients	Airtel, SyriaTel
Role	Developer
Environment/Tools	Java, Struts, Servlets, Tomcat, Postgres, Solaris, Make

Responsibilities:

- Involved in Coding of enhancement of mobile originated messages
- Involved in the unit testing and integration testing
- Worked on various SMS related bug fixes