

# Nageswara Rao Maridu

Senior Software Engineer II(Staff)

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## Profile

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Results-oriented and innovative Senior Software Engineer with **10** years of expertise, specializing in building large scale cloud native SaaS solutions with **microservices** architecture. Responsible and articulate individual with strengths in System Design, Solution Optimization, Cloud, Microservices architecture and Domain Driven Design.

Seeking a challenging senior/lead role in distributed system projects where I can utilize my experience to drive innovation and contribute to the success of projects.

## Areas of Expertise

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Software Development - Distributed Systems - Microservices - Cloud Computing - Object Oriented Design - Concurrent Programming - REST - Event Driven Architecture - IAM - DDD - TDD

## Work Experience

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Staff Software Engineer	<a href="#">Blak Duck Software</a>	Calgary, AB, Canada	Oct 2022 - Present
Staff Software Engineer	<a href="#">Synopsis Canada</a>	Calgary, AB, Canada	Jan 2022 - Sep 2024
Software Engineer (I, II & Senior)	<a href="#">Synopsis India Pvt Ltd</a>	Bangalore, KA, India	Dec 2016 - Jan 2022
Associate Software Engineer	<a href="#">Cigital Asia Pvt Ltd (now Synopsis)</a>	Bangalore, KA, India	June 2016 - Nov 2016
Application Programmer	<a href="#">Syntel Pvt Ltd (now Atos)</a>	Chennai, TN, India	Oct 2014 - May 2016

## Projects

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**Polaris Nextgen** Dev 2020 - present

Polaris is an integrated, cloud-based SaaS application security testing solution designed specifically for DevSecOps and development teams. I'm the lead developer responsible for design and development of SCM integration, Audit, Notification and IAM microservices for the platform.

**Stack:** Java, Golang, Spring Boot, Postgres, jOOQ, Rabbit MQ, Redis, Kubernetes, Datadog, RHSSO, Auth0

- Designed and developed a microservice for seamless integrations between Polaris and popular SCM platforms like GitHub, GitLab, and Azure, enabling real-time scanning of source code and automated security testing.
- Developed a Golang based SCM Runner module that securely pulls source code from various platforms (e.g. GitHub) and uploads it to Google Cloud Storage.
- Developed a Golang library to upload large files to Cloud storage using resumable upload feature, enabling efficient and reliable file uploads.
- Played a crucial role in resolving critical issues in Polaris Audit Service, enabling successful closure of a key deal, and led the design of self-serviceable audit logging capabilities that significantly reduced manual effort and improved overall operational efficiency.
- Led the redesign of Polaris email notifications, introducing a template engine for efficient email template management, and modularized the notification service code base using Domain-Driven Design (DDD), while also developing an end-to-end test suite to ensure seamless workflow testing.
- Demonstrated quick domain expertise in Identity and Access Management(IAM) and led the transition from RHSSO to Auth0 IDP, successfully delivering user management and login workflows using Auth0, as well as critical features like Kong and Auth0 integration.
- Guided junior developers, offering implementation advice and serving as a key technical resource. Fostered team skill development and knowledge sharing.

## Reporting Platform

Mar 2018 - Nov 2020

Reporting platform is a cloud-based SaaS platform that provides key insights on software risks, aggregating security vulnerabilities from multiple sources into a single dashboard for visualization. I played a crucial role in bringing this idea to life by understanding marketing professionals' requirements, designing and developing the solution.

**Stack: Java, Spring Boot, Spring Batch, Postgres, jOOQ, Rabbit MQ, Redis, Kubernetes, New Relic**

- Contributed to product design ideas with marketing and sales teams, as well as architects, ensuring a cohesive vision for the platform. Quickly delivered a proof of concept within a month, demonstrating the feasibility of the idea.
- Proposed a solution that was widely accepted by the entire team, showcasing my ability to drive consensus and deliver results. This design laid the foundation for the successful implementation of the Reporting Platform.
- Introduced the innovative idea of designing agents for fetching software vulnerabilities from different sources, which was widely appreciated by the team and stakeholders. This creative solution helped differentiate our platform and improve its capabilities.
- Led the technical aspects of the project with a team of 5 backend developers, overseeing the development process to ensure timely and accurate delivery. Successfully brought the project live within 6 months, providing a strategic advantage for the SIG team by ranking top-right in the Gartner magic quadrant.
- Guided fellow developers on the technology stack used in the project, sharing knowledge and expertise to ensure successful implementation. Demonstrated strong leadership skills by empowering team members and fostering a collaborative environment.

## Software Security Application Suite

June 2016 - Feb 2018

As a Full Stack Developer at Cigital, I contributed to the development of several software security applications.

**Stack: Java, Spring Boot, JSP, MySQL, REST API, JavaScript, Bootstrap, Angular 2+**

- Designed and developed multiple full-stack applications using a range of technologies..
- Led the transformation of a JavaScript based frontend application to Angular 2+ for a project, while assisting fellow developers in writing efficient and maintainable code.
- Made a significant impact by quickly acquiring expertise in Angular 2+, leveraging it's features and best practices to drive project success.
- Demonstrated expertise in migrating existing authorization model from RBAC to the new PBAC model using spring security framework.

## Plan Sponsor Application

Oct 2014 - May 2016

In my early years as a software professional, I worked as an outsourced Applications Programmer for Manulife, a Canadian multinational insurance company in modernizing their retirement plan service applications.

**Stack: Java, Spring Boot, Spring Batch, Postgres, jOOQ, Rabbit MQ, Redis, Kubernetes, New Relic**

- Enhanced multiple backend applications to improve performance and efficiency..
- Migrated the legacy HTML/CSS based front-end to a modern Bootstrap 5 based frontend, ensuring a seamless user experience across multiple browsers.
- Designed multi-browser compatible UI components using JavaScript and jQuery, streamlining the development process.
- Developed shell scripts and Ant scripts to automate local development processes, significantly increasing developer productivity.

## Education

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**Integrated Dual Degree** *Rajiv Gandhi University of Knowledge Technologies*

**Nuzvid, India** 2008-2014

CGPA : 8.15/10

Bachelor of Technology in Computer Science & Engineering — Minor in Management Studies.

## Skills

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- **Java**(primary), **Golang**, Python, JavaScript
- **PostgreSQL**, MySQL
- **Docker**, **Kubernetes**, **GCP**, **Cloud Run**, **Kubernetes Jobs**, **Google Cloud Storage**
- **RabbitMQ**, **Redis**, **Datadog**(Log Monitoring)
- **REST**, gRPC API development
- Event Driven **Microservices** Development
- **Domain Driven Design(DDD)**
- **Identity and Access Management (IAM)**, with expertise in authentication, authorization, and access control

## Achievements

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**Ace Award** *(Synopsys Inc)*

**Calgary, AB, Canada** Oct 2023

Awarded the Ace Award for Outstanding Performance, recognizing my exceptional contributions to the team. Notable achievements include:

- Rapidly gaining expertise in Audit and Notifications domains, consistently delivering crucial features.
- Successfully addressing complex consumer issues that significantly contributed to closing major deals.
- Improving system design to accommodate innovative solutions, ensuring smooth progression of essential functionalities.

This achievement showcases my ability to adapt quickly, think critically, and drive results.

**Star Award** *(Synopsys Inc)*

**Bangalore, KA, India** Aug 2019

Recipient of the Star Award in individual category, recognizing my extraordinary performance in designing and developing the Reporting Platform for Software Security Vulnerabilities. Notable achievements include:

- Played a crucial role in designing and implementing the reporting platform, extracting data from multiple sources using batch pattern within a short span.
- Demonstrated exceptional expertise and problem-solving skills in integrating diverse data streams to provide actionable insights.

This achievement highlights my ability to drive complex projects forward, think creatively, and deliver high-quality results under tight deadlines.