

Akhil Sudhakaran

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Professional Summary

I am a **senior software developer** currently working at **OpenText**, Bengaluru. With **over 6 years** of working experience as an individual contributor, I offer technical expertise in designing, developing and maintaining scalable **Springboot Java applications, microservices** and interactive **React web user interfaces** for the IT Operations Management (ITOM) suite. I have a proven track record of delivering software in a **SAFe® Agile** release cycle with high velocity. I also have experience in handling live customer defect debugging & resolution.

Work History & Projects

Senior Software Developer (SDE III) | OpenText – Bengaluru, India **Apr 2024 – Present**

Service Management Automation X (SMAX) - (SpringBoot, Hibernate, Redis, Kafka, AWS, TDD, BDD)

The SMAX platform manages IT Services, Assets and Enterprise services using system apps. It uses **Java** for backend with **AngularJS** for the WebUI and hosted on **AWS**. Currently **I am working in the platform team where we take ownership, design and implement backend features.**

- Designed and **created a Spring microservice**, that correlates Vulnerability and CVE data from Qualys data source with the vulnerable devices scanned by Server Automation (An OpenText ITOM solution).
- Added **Redis caching for API services to improve response time by reducing DB load by 40%.**
- **Implemented transaction management across microservices** involved in Vulnerability scan and remediation.
- **Implemented Row Level Access Control (RLAC)** on the backend to enable user access control over specific rows of all entities in the DB based on predetermined rules set by the admin.
- Worked on the image metadata redaction logic for the image upload service. Replaced a dependency on a 3rd party image library for custom image save **leading to reduced disk space consumption for tif images by 30%.**
- **Increased JUnit/JBehave UT coverage from 40% to over 80%** across modules owned by Bangalore team.
- Contributed in **over 50 code reviews per PI** and in **customer documentation for the product.**

Operations Orchestrator (OO) - (React, Java, AWS, TDD, Selenium)

OO is a workflow orchestrator that is based on Java backend for the orchestration engine and React for the UI and workflow designer web tool. **I Worked with the OO team to deliver UI features on OO Designer (A Cloudslang & AFL workflow creation tool).**

- Implemented **drag and drop functionality** for workflow items directly on the web UI using **React, Redux & mxGraph**, effectively **improving workflow creation speed by 100%.**
- Developed **real-time workflow validation** on importing/authoring workflows on the web UI or by Git changes.
- Created **UI test automation using Selenium, reducing manual test efforts by 5 story points per sprint and increasing QA efficiency by 50%** and contributed in defect fixing and product documentation.

Software Development Engineer II | OpenText – Bengaluru, India

Sep 2021 – Mar 2024

Database and Middleware Automation (DMA) - (Java, Python)

DMA automates deploying, managing and patching DB and Middleware applications thorough workflows. I worked in the DMA platform team, where I was responsible for **modernizing the legacy code base.**

- **Upgraded the platform code from Java 8 to Java 11**, improved the encryption logic from AES to PKCS-GCM for workflow data and fixed other security defects.
- **Removed dependency on deprecated Jython interpreter by upgrading to python 3** for the workflow execution engine and **rewrote the workflows in python 3.**
- Replaced **Adobe Flash for UI elements to use charts.js** (A modern Javascript based charting library) **increasing dashboard responsiveness by a 100%.**
- **Fixed over 20 defects from the backlog**, engaged in several customer facing defect resolution calls and contributed in upgrade documentation.

Data Center Automation (DCA) - (Java, Python, Vertica SQL)

DCA is a standalone application that automates vulnerability and compliance scan for private cloud data centers.

- **Optimized memory resource allocation** for report queries **from 2GB to 100MB** on Vertica DB
- Worked on the backend code for **internationalization and localization platform features**.
- Wrote **scripts to import patching data from WSUS and RedHat Satellite** for DCA patch scan capability.

Software Development Engineer I | Micro Focus – Bengaluru, India

Aug 2018 – Aug 2021

- Worked on features for a **multithreaded java application** called dataminer for extracting, transforming and loading data (ETL) from the Server automation platform DB to the in house reporting solution (OPTIC DL).
- Took ownership of OO content pack for Server Automation and worked on it's features and security defects.
- Wrote Ansible playbooks for deploying dataminer on SA as an **RnD efficiency item**.
- Responsible for **converting Python2 code in vulnerability content to Python3** as part of modernizing the code.
- Worked with the content team to **deliver vulnerability and compliance content in OVAL format**.
- Created **automation in python using the in-house AXIS framework** for content testing and deploying.

Technologies

Languages: Java, Python, SQL, Javascript/Typescript, HTML/CSS, shell scripting

Frameworks: SpringBoot, Hibernate(JPA), Junit(TDD), JBehave(BDD), React, Selenium

Miscellaneous: Git, Maven, Postgres, Vertica, Redis, Kafka, SAFe® Agile, Microservices, AWS, Linux, Windows, WSL, Jenkins, Docker, Kubernetes.

Education

Birla Institute of Technology, Pilani, MTech in System Software

2021 – 2023

- **CGPA:** 9.24
- **Related Coursework:** Distributed Computing, Mathematical Foundations for Data Science, Advanced Statistics, Applied Machine Learning, Deep Learning, Natural Language Processing.

Sir M. Visvesvaraya Institute of Technology, Bengaluru, BE in Computer Science

2014 – 2018

- **Grade:** 80.5
- **Related Coursework:** Object Oriented programming with Java, Pattern Recognition, Artificial Intelligence, Network Security, Software Testing, Unix system programming.

Achievements and Publications

- Awarded one of the **best RnD teams in Bangalore** for the year 2023-2024.
- One among the **top 10% of my class in BITS Pilani** for the MTech batch of 2021-23.
- Recognized for innovations done as part of my contributions in inno weeks.
- **SAFe® Certified Agile Developer** 2018
- **Awarded gold medal for being the top 5%** of FCD holders of Sir. M Visvesvaraya Institute of Technology, Bengaluru for the BE batch of 2014-18
- Received 1 among the 1000 scholarships given nationwide by Google and Tata Trust for the Udacity Android Development Nanodegree.
- **A Novel Double Backtracking Approach to the N-Queens Problem in Three Dimensions** Jul 2017

Abhijith Chakiat, *Akhil Sudhakaran*, Abhinav A. Nair, Pallavi Venkatesh

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