

# Kalyan Chakravarthi Chittipeddi

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## Professional Summary

Software Engineer with hands-on experience in Java, Spring Boot, Angular working on building scalable and efficient web applications. I have work experience in developing and maintaining RESTful APIs and microservices, ensuring smooth communication between different systems. I have also worked extensively with Linux servers, monitoring, and writing Bash scripts to automate routine tasks and improve system reliability.

In addition to backend development, I have experience working with SQL and PL/SQL, optimizing database queries, and ensuring data integrity. I enjoy solving complex technical problems, whether it's debugging an application, improving system performance, or streamlining deployment processes. I thrive in collaborative environments and always focus on delivering clean, maintainable code that meets project requirements. Strong background in both frontend and backend development, cloud technologies, and Agile methodologies.

## SKILLS

**Languages:** Java, C++, Python, Arduino.

**Frameworks:** Spring Boot, J2EE, JDBC, Angular, React.

**Web Technologies:** REST API, HTML, CSS, Bootstrap, XML, Material UI, JSP, JSON.

**Scripting Languages:** JavaScript, TypeScript, Shell Script, Bash.

**Databases:** MySQL, PostgreSQL, MongoDB.

**Tools & Editors:** ServiceNow, Remedy9, Visual Studio Code, Eclipse, IntelliJ IDEA, Maven, Jira, SharePoint, VMware, Postman.

**Cloud Technologies:** Amazon Web Services (AWS), EC2, S3.

**Operating Systems:** Linux, UNIX, Windows.

**Testing & Version Control:** TestNG, Junit, GitHub, Tortoise SVN.

## EXPERIENCE

**Technical IT Specialist, Pulaski Academy, Little Rock, Arkansas, USA Aug 2024 – Present** • Developing and maintaining a Java-based Veracross integration using Spring Boot and PostgreSQL, ensuring smooth data synchronization between school administrative systems.

- Writing and optimizing RESTful APIs to pull student records, attendance, and grading data from Veracross, improving data accessibility for faculty and staff.
- Managing Linux-based application servers, performing regular health checks, log analysis, and security updates to ensure system stability and prevent downtime.
- Writing Bash scripts to automate server tasks, such as log rotation, database backups, and scheduled reports for school administrators.
- Handling PostgreSQL database administration, tuning queries to improve response times for student and faculty portals and ensuring data consistency across systems.
- Monitoring server performance, disk usage, and process logs to proactively resolve issues before they impact school operations.
- Implementing firewall rules and SSH access controls to secure Linux servers and restrict unauthorized access to sensitive student information.
- Troubleshooting API integration issues, ensuring smooth communication between the school's internal systems.
- Assisting faculty and staff with IT-related issues, including resolving network connectivity problems, software errors, and access issues to Veracross and other school platforms.
- Implemented automated log monitoring to track errors in Java applications, Linux servers reducing manual troubleshooting efforts.

**Software Engineer, Apex Informatics, USA Feb 2023 - May 2024** • Developed and maintained back-end services using Java and Spring Boot to process customer orders, manage inventory, and handle payment transactions.

- Designed and implemented RESTful APIs to support product searches, order tracking, and user authentication, ensuring smooth interaction between the front-end and back-end systems.
- Integrated Kafka for real-time order updates so that customers and administrators receive instant notifications on order status and stock availability.
- Worked on optimizing database queries in PostgreSQL, reducing order retrieval times and improving the overall system performance.
- Implemented authentication and authorization using Spring Security and OAuth2, ensuring secure access for customers and administrators.
- Developed Bash scripts on Linux servers to automate regular health checks and restart services when needed, ensuring high availability during peak sales.
- Built an interactive Angular-based dashboard to display real-time insights on orders, inventory levels, and sales trends for store

managers.

- Wrote and executed JUnit and TestNG test cases to validate order processing and ensure payment transactions were handled correctly before deployment.
- Collaborated in Agile development cycles, participating in sprint planning, daily stand-ups, and code reviews to ensure smooth progress and timely releases.

#### **Software Engineer, Tech Mahindra, India Jan 2021 - Jul 2022 Client: British Telecom**

- Worked on a logistics domain project, specifically dealing with CCS-UK and UK-HMRC servers, where we processed cargo-related information.
- Developed a Java-based application called Translational Services, designed using Microservices architecture, to process and convert various message formats such as EDIFACT, JSON, and XML into standard XML for downstream processing.
- Used IBM ITX 9.4 Extender to develop and manage 206 different transformation maps, enabling seamless data exchange between logistics clients.
- Implemented Socket programming to establish real-time communication between different clients ensuring smooth transmission of cargo data.
- Designed and optimized RESTful APIs to interact with different maps and servers, handling real-time requests and responses for cargo status updates.
- Managed Linux-based production servers, deploying the Translational Services application, setting up environment variables, and ensuring system uptime.
- Implemented Bash scripts to automate server monitoring, log management, and start/stop operations for the application.
- Integrated Log4J for efficient logging and monitoring in Java applications, ensuring better debugging and system analysis.
- Regularly performed health checks, monitored resource utilization, and troubleshoot performance issues to prevent downtime.
- Used Git for version control, tracking, managing version updates including mapping changes and API enhancements.
- Developed TestNG test cases to validate all 206 maps testing them with different version conversions before deployment.
- Collaborated with cross-functional teams, including DevOps, QA, and business analysts and database teams to improve the accuracy and reliability of cargo data processing.
- Created detailed technical documentation for the Translational Services application, making it easier for new developers to understand the transformation logic and integration points.
- Provided production support, investigating and resolving issues related to cargo message processing failures, missing data, and connectivity problems with different clients.

#### **Associate Software Engineer, Tech Mahindra, India May 2019 - Dec 2020 Client: Eircom**

- Worked on various telecom applications such as Ericsson, Nokia, OSS-RC, and Helios, supporting critical infrastructure used for network monitoring and configuration management.
- Temporarily contributed to the development of template-driven forms using Angular for a telecom billing application, enabling smoother user experience for processing invoices and account details.
- Performed switch-over activities to transfer live traffic between primary and secondary servers for Ericsson applications, ensuring minimal downtime and seamless data continuity.
- Conducted regular health checks on telecom servers, monitoring logs, analyzing CPU and memory usage, and ensuring that services were running optimally to prevent outages.
- Provided on-call support, assisting clients outside office hours in troubleshooting critical issues related to network failures, system slowdowns, and connectivity disruptions in various telecom applications.
- Developed and maintained Bash scripts to automate server monitoring and application recovery, ensuring that production applications automatically restarted when they went into an OFF state.
- Worked extensively on SQL and PLSQL scripts, analyzing and troubleshooting billing data issues across multiple telecom applications, resolving discrepancies in customer invoices and transaction records.
- Assisted in log analysis and debugging to identify root causes of failures in telecom applications, working closely with network engineers and system administrators to apply necessary fixes.
- Collaborated with cross-functional teams, including database administrators and network engineers, to ensure smooth operations of OSS-RC and Helios applications in a production environment.
- Maintained version control and deployment documentation, tracking changes in system configurations and ensuring rollback plans were in place for any major updates or deployments.
- Provided training sessions and documentation for new team members, sharing knowledge on server health checks, troubleshooting techniques, and telecom application monitoring best practices.

#### **EDUCATION**

**Texas State University, San Marcos, Texas, USA**

Master of Science, Computer Science Graduation: **May 2024** **Jawaharlal Nehru Technological University, India**

Bachelor of Technology, Electronics and Communication Engineering Graduation: **Apr 2018**

#### **CERTIFICATIONS**

- **Amazon Web Services Certified Developer – Associate, 2024.** Certification No. (64ac315f779b4058b12cefa9e2d9ed01).
- **ServiceNow Certified System Administrator, 2024.** Certification No. (25112635).

### PROJECTS

- **Travel and Accommodation Website:** Developed an integrated travel booking platform using Spring Boot for robust REST API back end and Angular for a user-friendly front-end, offering features like account creation, flight status checks, mileage benefits, ticket purchases with miles, personalized deals, and feedback options.
- **An Image Encryption Algorithm Based on Josephus Traversing and Mixed Chaotic Map:** Investigated and implemented advanced encryption techniques, including Josephus traversing algorithm and chaotic mapping, for secure digital image transmission.