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code2getday.blogspot.com/ (Blog)

Top Skills

Engineering
Java Development
Microsoft Azure

Languages

Telugu (Native or Bilingual)
English (Full Professional)
Hindi (Elementary)

Certifications

React.js: Building an Interface
Intro to Python for Data Science
Mastering Microservices with Java
Database in the Cloud
Angular Essential Training

Honors-Awards

Best Software Engineer-Award
Graduate Research Assistant

Krishnakanth Yachareni

Senior Software Engineer @ Walmart | AI | Machine Learning
| Design Scalable & Reliable Systems | DSA | Competitive
Programmer
Richardson, Texas, United States

Summary

• Highly motivated and experienced Software Engineer with a
strong background in developing and delivering high-quality, reliable
software solutions.
• 5+ years of commendable experience in developing enterprise
applications using Java/J2EE in Agile and Scaled Agile
methodology.
• Proven track record of delivering successful projects on time and
within budget.
• Strong problem-solving skills and ability to work well in a team
environment.
• Passionate about staying current with industry trends and
technology advancements to deliver high- quality, reliable software.
• Seeking to leverage my skills and experience to make a positive
impact at a dynamic and innovative company.
• Good experience in developing RESTful web services using Spring
Boot, and Microservices.
• Can develop an efficient event-driven based API using an
asynchronous messaging system.
• Able to design, and implement the highly scalable, available
system.
• Hands-on experience in designing and developing dynamic HTML
pages using Angular.
• Key business domain banking/finance.
• Key members involved in the integration of gateway with global
payment gateways such as NPCI (RuPay), PayPal, MADA,
FirstData, 3DS Authentication, Accertify(Interceptas) Risk
management.
• Involved in the complete software development lifecycle, including
design, development, deployment, and automation testing of the
application.
• Ability to handle multiple tasks independently and in a team.

• An effective communicator with excellent interpersonal, logical thinking & analytical abilities.

SKILLS/INTERESTS:
➢ Languages: Java, Python, JavaScript(ES6), TypeScript, R-Programming, SQL.
➢ Spring framework: Spring Boot, Spring Core, Spring MVC, Spring AOP, Spring ORM, Security, Spring REST/SOAP
➢ Back-end: JavaEE, Microservices, RESTFul, GraphQL, Node.js, Express.js, Apache Kafka, RabbitMQ, Nchan messaging, AWS (EC2, S3, Cloud Front, Redis), GCP
➢ Frond-end: Angular 8+, React.js, Redux, HTML5, CSS3, BootStrap, Velocity.
➢ DataBase: Oracle, MySQL, Cassandra, MongoDB
➢ Automation Testing: Selenium, Cucumber, Apache Jmeter, Jenkins.
➢ Frameworks & Tools: AWS, Docker, Kubernetes, Maven, Gradle, Junit, Spock, Mockito, Jasmine, Karma, Power Mockito.
➢ Machine Learning: Python, Deep Learning, CNN, Tensorflow, Keras, OpenCV

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Experience

Walmart Global Tech
2 years 6 months

Senior Software Engineer
January 2025 - Present (6 months)
Dallas, Texas, United States

Software Engineer III
January 2023 - December 2024 (2 years)
Dallas, Texas, United States

1. Working with the Stores, Associates & Platforms team on the Data Ingestion pipelines serving approximately 1.6 million U.S. Walmart Associates and processing around daily 150 million events
2. Working on the micro-service based architecture & distributed systems, scaling applications across multi regions

3. Contributed to substantial cost savings for the company by successfully implementing cloud cost optimization strategies and efficiently reducing operational expenses.

4. Implemented an event loop to execute Firebase HTTP calls in parallel and in a reactive manner, resulting in a 50% reduction in cloud costs. This approach also minimized CPU usage and memory utilization. Utilized Project Reactor library and Spring WebFlux and applied HTTP/2 (Multiplexing) for this achievement.

5. Performed memory and thread profiling in Java to address the issue of memory leaks in production pods.

6. Successfully spearheaded the integration of the SMS feature with the notification platform and directly oversaw the delegation of SMS-related tasks to our colleagues.

7. Designed scalable systems based on event-driven architecture.

8. Implemented RESTful, GraphQL APIs and Microservices, improving system modularity and scalability, resulting in a 30% reduction in response time.

9. Led efforts to optimize database queries, reducing query execution times by 25% and enhancing overall application performance.

10. Implemented continuous integration and continuous deployment (CI/CD) pipelines, automating deployment processes and reducing deployment errors by 15%.

11. Designed and implemented comprehensive unit tests and end-to-end tests, achieving 90% test coverage and improving overall software reliability.

12. Implemented security best practices, ensuring compliance with industry standards and protecting sensitive user data from vulnerabilities.

Copart
Software Engineer Intern
May 2022 - December 2022 (8 months)
Dallas, Texas, United States

1. Developed an internal notification system, which offers managing operations on notifications created by Copart users.

2. Established baseline setup for any new applications by working with Domain Architects, Information security, and other internal teams.

3. Improved applications start-up performance by over 50% faster.

4. Worked with UX designers and other developers to build modular, reusable components and compelling web applications.

5. Worked with experienced developers to understand and help build an eco-system of scalable microservices in Java and Spring framework

6. Developed a passion for creating experiences that users will rave about.

7. Improved applications start-up performance by over 10% faster using GraalVM

8. Implemented Dead Letter Queue (DLQ) pattern to retry the undelivered messages to the queue with a specified time interval in between the retries and when the number of retries is exhausted and stored these dead messages in the database for further recovery.

9. Implemented an internal caching mechanism to avoid the extra REST calls for the user, yards, and group validations.

10. Upgraded existing spring boot 2.3.4 application to spring boot 3.0.0 where changes have been made to spring security, spring cloud vault, spring cloud stream rabbit, open API, and Jakarta EE 9, JDK 17.

11. Introduced GraalVM to an existing Copart notification application to improve the performance of languages that run on the JVM, reducing application startup times, integrating multi-language support into the Java ecosystem, as well as providing a set of programming tools to do so.

The University of Southern Mississippi
Graduate Research Assistant
August 2021 - December 2022 (1 year 5 months)
Hattiesburg, Mississippi, United States

1. Served as a Research Assistant where I contributed to developing an efficient geographic information system for NOAA.

2. NOAA is an American scientific and regulatory agency within the United States Department of Commerce that forecasts weather monitors oceanic and atmospheric conditions, charts the seas, and conducts deep sea exploration.

3. Implemented map-based web application to handle US NOAA ocean exploration data which includes ship paths, Research vessels sensor collected information.

4. Assist in developing a dynamic set of resources through the Geographic information system database using MongoDB, and S3 Bucket.

5. Designed the web prototype to handle over 2TB of media data.

6. Implemented the machine learning model to identify and extract the annotation, and bounding box information about fishes in an NOAA video dataset.

7. Used Fathomnet API to collect and prepare the dataset to train the machine learning model using the TensorFlow object detection model.

Mastercard
3 years 7 months
Software Engineer

June 2019 - July 2021 (2 years 2 months)
Hyderabad, Telangana

EPAM Systems is my vendor and worked for a Mastercard client for more than 3 years where I was part of the core payment gateway development team. Each team member is responsible for following the complete development life cycle of software: requirement analysis, development, and unit testing, integration testing using selenium & cucumber, Quality checking, production deployment, and fixes.

1. My role involved into exploration & integration of various real-time payment services with Mastercard Payment Gateway.
2. Develop the backend logic with a TDD approach and the frontend logic with the BDD approach.
3. Writing backend unit test cases with Junit and Mockito and front-end with Jasmine and Karma.
4. Work with a variety of different languages, platforms, frameworks, CI/CD tools, and content management systems such as Java8, Spring Framework, Microservices, RESTful API, JSON/XML, JavaScript, TypeScript, Angular, MySQL, Cassandra, Junit, Mockito, Selenium and cucumber, Jenkins, Docker.
5. Develop automation scripts.
6. Communicate with multi-disciplinary teams of engineers, architects, designers, product owners, and clients on a daily basis.

Risk Management

1. Integrated MC with Interceptas® platform so that the Interceptas® platform can be used for risk management of transactions processed through the MC gateway.
2. We used Spring expression language to translate the intercepts SOAP requests and responses.
3. I've Implemented mutual TLS client and server authentication with F5 by providing the application certificates. Here I used the Apache core SSLContext library to do mTLS.

FirstData (Fiserv)

1. Integrated The First Data via Rapid Connect (PTS) acquirer with Mastercard gateway to process
1. Authorization traffic via Rapid Connect to Cardnet (and Nashville)
2. For Settlement traffic directly to PTS

2. Java8 features are extensively used in this microservice during integration.

3. Written integration test cases using the Cucumber framework

Junior Software Engineer
January 2018 - May 2019 (1 year 5 months)
Pune, Maharashtra

Domestic Gateway Integration:

1. I'm a core member of the team where we integrated India's largest payment gateway RuPay(NPCI) with MasterCard Gateway.

2. RuPay payer authentication via RuPay PaySecure is used to authenticate payers when using their RuPay card. and it has mandated, that RuPay payer authentication must be performed prior to the authorization of the funds, reducing the incidence of fraud.

3. Cardholders will be redirected to a site hosted by the Issuer Bank to enter a One-Time-Password (OTP) via the NPCI network. The merchant will be provided with the authentication result. The merchant must only proceed to the Authorization if the payer authentication is as successful.

PayPal Intergation:

1. PayPal is a browser payment method, that allows customers to pay using their PayPal account (where this account can be associated with a credit card, bank account, etc.

2. Introduced a new microservice for PayPal handling in gateway from scratch and I was applied different sort of design patterns.

3. Implemented notification facilities to a merchant by registering the webhook with PayPal, introduced circuit-breaker the pattern in the application that handles the timeout scenarios, handling PayPal Rest Exceptions.

Tata Consultancy Services
Assistant System Engineer-Trainee
November 2017 - January 2018 (3 months)
Hyderabad, Telangana, India

1. As Trainee-Attended the first phase of Initial Learning Programme(ILP) conducted by TCS for every fresher and It included training on Object-Oriented Languages OOP on java, Python and also basics of Oracle.

2. Got An Appreciation for Crowd testing of Anyone can code, where it is an online coding challenges platform.

3. Collaborated with a small team of student designers to develop a new mini banking web application before graduating from the ILP training.

HYSEA – Hyderabad Software Enterprises Association
Software Engineer Intern
May 2016 - August 2016 (4 months)
Hyderabad Area, India

A four-month Summer Engineering Internship program organized by JNTUH in collaboration with Telangana Academy
for skill and knowledge and The Hyderabad Software Enterprises Association

1. Developed real-time IOT based android application called Ostello, wherein an interactive platform is provided for nonlocal people & Hostel/Mansion.
2. Users can search for the appropriate hostel with preferences like time, fee location & booking.
3. It's all happening on the client side and vendor side hostel management system with the help of fingerprint scanner.
4. Tools used in applications are Android, Python, PHP, MySQL, Java, and Raspberry Pi.

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Education

The University of Southern Mississippi
Masters, Computer Science · (January 2021 - December 2022)

Jawaharlal Nehru Technological University
Bachelor of Technology (B.Tech.), COMPUTER SCIENCE AND ENGINEERING