Amit Kumar Gaurav

Lead Software Engineer (Cisco Systems)

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OBJECTIVE

Recognized problem solver with over 18+ years of experience in delivering enterprise technology solution for leading companies in a variety of business verticals. Well versed in designing and developing systems based on Layered Architecture, Event-Driven Architecture, Microservices Architecture, Microkernel Architecture and Spaced Based Architecture.

PROFILE SUMMARY

- 18+ years of experience in IT Industry
- 2+ years of experience as a Team Lead/Business Systems Analysis Manager
- 5+ years of experience as a Technology Architect
- Overall 18+ years of experience as a software developer and programmer
- Proficiency in Modules Interface Design/Development and Integration
- Skilled in end-to-end life cycle of Java/J2EE, JS/NodeJS and Python based systems
- Hands-on experience with ability to see the big picture while handling complex details

SKILL SET

Technical	
Programming Languages	Java, Java Script/Type Script and Python
Java Related Technologies	Spring Boot/Data/Cloud/JDBC/Batch/Security/AI/Web Services etc., JPA/Hibernate, Gradle, Maven, ANT, Junit, Struts 1.x etc.
JS Based Technologies	NodeJS, Express JS
Python Related Technologies	Flask
Relational Database	Oracle, SQL Server, MySql, Cockroach DB
Non-Relation Database	MongoDB, DynamoDB, FireBase, Cassandra
Messaging Systems	Apache Kafka, RabbitMQ, ActiveMQ, IBM MQ
Web Services	RESTful, SOAP based
Cloud Technologies	Serverless: GCP- Cloud Storage, functions, AWS-S3, Containers, BigData
API/Proxy Platform	Mashery
Data Search and Analytical Engine	Elastic, Solr
Architecture Pattern	Layered, Event Driven, Microservices and Space based
Design Pattern	Creational, Structural and Behavioral
DevOps	Docker, Kubernetes, OpenShift, RunDeck, Jenkins etc.
Service Mesh	Istio
Web Server/Reverse Proxy/Load Balancer	Nginx
Application Development Platform	IntelliJ, Eclipse, Visual Studio Code, Jupiter Notebook, PyCharm
Others	Shell Scripting, MS Visio/Office, Crucible, JIRA, WinMerge
AI/ML	Use Case Identification and System Design
Soft Skills	

- Active participation in RFPs within delivery unit
- Strong believer of knowledge/artifacts sharing within/outside team
- Efficiency in effort estimation and work plan development
- Known fire-fighter in unit for burning/prod issues
- Committed team player with good interpersonal skills
- Proven record in handling complex tasks at workplace

Role and Responsibilities

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- Identifies necessary infrastructure for computer systems to be designed and integrated by coming up with requirements
- Confirms architecture capability and flexibility to support high availability web applications by developing analytical models
- Determining the tools, technology and architecture needed for the platform and overseeing physical database development
- Improves architecture by tracking emerging technologies, evaluating their applicability to business goals and operational requirements
- Breaking down large-scale projects/requirements into manageable chunks
- Understanding both aspects of each system i.e., business, and technical point of view
- Explaining to designers and developers what's required and overseeing the progress
- Preparing PoC/PoV, validation tests
- Producing documents that monitor progress and ensure the quality of the project
- Preparing a budget, scheduling expenditures, analyzing variances, initiating corrective actions

Achievements
- Cisco GOING ABOVE AND BEYOND award for stand-alone budling Data Ingestion Platform FY 23
- Cisco Stock Options – Employee Rewards Program FY 22
- Infosys RISE Awards - MFGADM Zenith Q2FY21
- Infosys Zenith Most Valuable Player Award, Q1 FY20
- Infosys Certificate of Appreciation – Campus Recruitment Program FY 20
- Infosys Insta Awards – 3 times
- Infosys ESOP (Employee Stock Options Program) – Certificate of Reorganization
- Infosys R.E.A.P. (Rewards for Evaluation and Assessments by Panelists)
- Infosys Received 'On the Spot' Award for Q2 2009-10 in Infosys

PROFESSIONAL EXPERIENCE

VII. Cisco Systems, Bangalore	Feb 2022 – till date

Cisco Systems, Inc. is an American multinational digital communications technology conglomerate corporation headquartered in San Jose, California. Cisco develops, manufactures, and sells networking hardware, software, telecommunications equipment and other high-technology services and products.

Role: Lead Software Engineer

Major programs worked on:
1. **Cisco Smart Software Management**: Platform holding a set of software to manage Cisco's Licenses and Entitlements meant the customers.
   (Java 8, Apache Kafka, RabbitMQ, GCP Cloud Storage/functions, Cockroach DB, Oracle DB, Micro Services, Docker, K8S, OpenShift etc.)
2. **Subledger Data Streaming Platform and Health Check Monitor**: Designed a solution responsible to have a data pipeline from an external system to Cisco database.
   (Confluent Kafka, NodeJS, TypeScript, Avro Schema, Redis and Oracle DB)
3. **Invoice Printing (AMS Ops):** A platform that facilitates Cisco Capital to generates invoices (data set provided by InfoLease application). This system at very high level extracts a data set, processes, follows a set of rules configured in Invoicing templates, generates/saves invoices and at the end schedules/sends invoices to Cisco's end customers.
   (NodeJS, TypeScript, Oracle DB, Micro Services, Docker, K8S, OpenShift etc.)
4. **Multiple Bookset**: Cisco Capital platform to host APIs to outside world
   (RESTful APIs, Mashery, TypeScript, NodeJS, Oracle DB, Micro Services, Docker, K8S, OpenShift etc.)
5. **File Extract and Processing Platform**: A configurable platform which facilitates capital to extract, save, process and notifies files extractions from AWS-S3.
   (RESTful APIs, TypeScript, NodeJS, Oracle DB, AWS-S3 etc.)
6. **AI/ML Space Exploration**:
   - Designed and implemented RAG pipelines combining vector similarity search (FAISS, Elasticsearch, Weaviate, Pinecone) with LLMs to provide context-aware and factually accurate responses.
   - Developed chunking, embedding, and indexing pipelines for domain-specific documents using models like Sentence Transformers, OpenAI embeddings, Cohere, etc.

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- Enabled semantic search by integrating vector databases with RESTful APIs for document augmentation and evidence retrieval.	

VI. Infosys Limited, Bangalore	Jun 2016 – Feb 2022

Infosys is an IT solutions and services provider in application development system employing more than 250,000+ employees worldwide

Role: Technology Architect

Client: Cisco Systems, Inc.

Major programs worked on:
7. **Lockbox**: Designed and developed the solution to process payloads meant to push payments to external system
   (Kafka, NodeJS, TypeScript, MongoDB)
8. **Athena LM Automation**: Idea and POC for the solution were presented to the client in lease management area which was later accepted and turned into a full fledge project. Awarded for innovative solution and contributions. Application was based on Event Driven Architecture. I worked as a backend developer
   (MEAN, Kafka)
9. **Cisco TQSG Process Automation**: Automation solution provided to client for a requirement in DevOps area
   (RunDeck, Shell Script)
10. **Cisco Market Insights**: This was another innovative solution provided to the client to trace their products being sold in gray market. Solution had used Google Custom Search APIs
    (Angular 8, Java, Spring Boot)
11. **Cisco Lit Lab:** A web application to fulfill customer's requirements for litigation management. My role was limited to solutioning here
    (MEAN)
12. **CFA Upgrade**: A decade old legacy application in Struts/JSP was migrated to newer technologies Angular, Java 8 and Spring Boot
    (JSP, Angular, Java, Spring Boot, Oracle)
13. **Cisco Refresh:** This was another innovative solution in Cisco's refurbished products sale area. Around 30 different applications hosted separately were brought together under a single umbrella with the name 'Cisco Refresh'.
    (AngularJS, Java, Spring Boot, Oracle)
14. **Cisco NG Dashboard:** This was an existing solution which was upgraded to bring up the performance and user's experience
    (Tableau, MongoDB, Terra Data)
15. **ECLM Data Migration**: Data migration planning and script development to move the data from an old application to newly developed application (old DB system to new DB system)
    (Core Java, Oracle)

V. Fair Isaac India Pvt LTD [FICO], Bangalore.	Oct 2014 – Jun 2016

FICO (NYSE: FICO) is a leading analytics software company, helping businesses in 80+ countries make better decisions that drive higher levels of growth, profitability and customer satisfaction. The company's groundbreaking use of Big Data and mathematical algorithms to predict consumer behavior has transformed entire industries

Role: Senior Solution Integration Consultant

Client: ICICI Bank

Major programs worked on:
1. **Common Point of Purchase/Compromised**
   In-house product development and implementation (for ICICI Bank) of CPPC. Part of design and development team. Owner of two basic modules [Java Interfaces and Spark Script module] out of three modules [Java Interface, Spark Script, and IRE (Identity Resolution Engine). Branded as a FICO product.
   (Core Java, Spring Quartz, Spring JDBC, Spark-Scala, Shell Script, Oracle DB)
2. **POCs preparation for in-lined clients to help pre-sale team with FICO**
   Preparing environment with client's real time data, this involves molding and mining of data set/developing a java interface to integrate client's test environment etc.
3. **GE-Falcon Implementation**
   Worked as an integration consultant for implementation of FICO's in-house product called

Falcon for GE Capital. Mostly involved in implementation of modules Falcon-Scoring Server, Case Manager and Expert Application

IV. Capgemini India Pvt. Ltd., Bangalore	Nov 2012 – Oct 2014

Capgemini is one of the world's foremost providers of consulting, technology and outsourcing services. Present in 40 countries with more than 120,000 employees, the Capgemini Group helps its clients transform to improve their performance and competitive positioning

Role: Java Consultant

Client: VEDA, Australia

Major programs worked on:
1. **DP2/DP3** [Maintenance and Implementation]
   (Java, EJB3, JPA, Toplink, JTA, Glassfish, JUNIT).

Client: ANZ Bank, Melbourne, Australia

2. **ANZ-Falcon gateway**
   (Java-reflections/collection/cloning], Spring IOC/Spring JDBC/Spring Quartz, JAXB, IBM MQ, DB2, eclipse STS).

Client: Barclays PLC, Northampton, UK

3. **bPay – Barclays Payment**
   (Java1.6 [Java-reflections/collection/cloning], Spring IOC/MVC/Interceptor, HSQL, Eclipse Juno etc.).

III. Zyme Solutions (now E2open), Bangalore	July 2011 – Nov 2012

Company Overview: Zyme is the leading provider of channel data solutions for the high- tech industry, giving our customers unparalleled visibility into their channel sales activity. Zyme was founded with a mission to address the channel visibility problem in the high-tech industry.

Role: Software Engineer III

Major programs worked on:
1. **CallistoTD – Callisto True Data**
   (Java1.6 [Java-reflections/collection/cloning], Velocity, POI Applets, ActiveMQ, Spring-flex framework, flex, MyBatis and MySQL.)
2. **OSS – SanDisk Portal Claims Management**
   (JSP, Spring3.5, Hibernate3.0, Liferay-Portal, JQuery and MySQL)

II. Tavant Technologies, Bangalore	Mar 2010 – July 2011

Tavant is an IT solutions and services provider in application development system employing more than 800 employees worldwide and headquartered in Santa Clara, CA, USA.

Role: Software Engineer III

Client: Doosan, Fargo, North America.

Major programs worked on:
1. **OSS – One Stop Shop**
   (WebLogic, Toplink, Oracle, Java1.4, Struts, JSP)

Client: SuccessFactors (now SAP company), San Mateo, USA.

2. **ECT – Employee Central.**
   (Java 5, JPA, Oracle DB)

I. Infosys Technologies Ltd., Bangalore	Oct 2006 – Mar 2010

Company Overview: Infosys is an IT solutions and services provider in application development system employing more than 100,000 employees worldwide.

Role: Technology Analyst

Client: Chrysler LLC, Detroit, USA.

Major programs worked on:
1. **Sc. Lab:** ATA and EDDS (Core Java, JSP, Struts 1.0, Sybase)
2. **DCXFISRPT**: FISRPT (Core Java, JSP, Servlets, Sybase)
3. **DCXBCVM**: AMPSES, AMPSLS (Visual Basic and Sybase)

INFOSYS TRAINING [MYSORE] (Trained in Oracle, Shell Programming (Unix), C, C++)

Role: Software Engineer Trainee	Oct 2006 – Dec 2006

Joined as a fresh recruit, qualified for the 'Fast Track Batch' after clearing the test at Infosys, Mysore on very first day of joining.

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EDUCATION

- B.Tech. (Comp. Sc.), Cochin University of Science and Technology, Kochi, Kerala - 73%
- 12th Std., B.I.E.C., Patna, Bihar – 66%
- 10th Std., B.S.E.B., Patna, Bihar – 62%

PERSONAL INFORMATION

- Date of Birth   :   19 May 1982
- Nationality   :   Indian
- Marital status   :   Married