Kaustav Sen premium Featured

Software Engineer with M.Tech in Computer Science currently living in Bengaluru / Bangalore, seeking roles in Software Development, Algorithm Development,Data Structures,Cloud Computing, System Analysis,Java, MicroServices, API Development, Docker

Current Designation: Software Engineer

Current Company: Cisco Systems

Current Location: Bengaluru / Bangalore

Pref. Location: United States (US),Bengaluru / Bangalore

Functional Area: IT Software - Application Programming / Maintenance

Role: Software Developer

Industry: IT-Software/Software Services

Marital Status: Married

Total Experience: 4 Year(s) 3 Month(s)

Notice Period: 2 Months

Highest Degree: M.Tech [Computers]

Key Skills: Data Structures,Algorithm Development, Java Developer, Core Java, Spring, Hibernate, SQL, Advanced Java, JDBC, Maven, JPA, Microservices, Spring Boot, Software Engineering, Software Development, Cassandra, Python, Kafka, Docker,

Verified : **Phone Number |** **Email - id**

Last Active: **Jan-Mar 2021** Last Modified: **Jan-Mar 2021**

Summary

Currently working as a Software Engineer at Cisco Systems with experience in designing and developing scalable, robust systems and microservices. Have experience working in Java, REST API development, Apache Kafka, Zookeeper, Cassandra, InfluxDB, as well as containerization and orchestration tools like Docker and Kubernetes. I have also worked in the NLP space for chatbot development, and dabbled in Machine Learning projects which have lent me exposure to Python and R

Work Experience

Cisco Systems as Software Engineer
Aug 2016 to Till Date

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Capgemini as Software Engineer
Aug 2013 to Feb 2014

Order Management Portal: Created order tracking system using SAP ABAP

Education

UG: **B.Tech/B.E. (Computers)** from **West Bengal University of Technology (WBUT)** in **2013**

PG: **M.Tech (Computers)** from **International Institute of Information Technology (IIIT), Bangalore** in **2016**

Other Qualifications/Certifications/Programs:

Machine learning certification from Stanford University

IT Skills

Skill Name	Version	Last Used	Experience
CoreJava			3 Year(s)
Design Patterns			3 Year(s)
MicroServices			3 Year(s)
MACHINE LEARNING			2 Year(s) 4 Month(s)
Natural Language Processing			2 Year(s)
Python			2 Year(s)
SQL			3 Year(s)
Apache Kafka			2 Year(s) 6 Month(s)
InfluxDB			1 Year(s)
Cassandra			1 Year(s)
Spring			2 Year(s)
JAVA			3 Year(s)

Languages Known

Language	Proficiency	Read	Write	Speak
English	Expert			
Hindi	Proficient			
Bengali	Expert			

Projects

Project Title: REST API for DasDATA Service Status
Client: Cisco Systems
Nature of Employment: Full Time
Duration: Jul 2019 - Till Date
Project Location: Bangalore
Onsite / Offsite: Onsite
Skill Used: Core Java, Spring Boot, Microservices, JPA, JDBC, Cassandra, API Manufacturing
Project Details: The Cisco Data Acquisition, Analytics, and Telemetry platform provides a host of Big Data offerings like Kafka, Cassandra, Kafka REST-Proxy, Schema Registry and Elastic-Logstash-Kibana stacks, among others, which are all offered as cloud services.Our goal was to build a single source of truth to garner the current status of these services as well as incorporate historical data like uptime metrics, data load parameters etc. Leveraged Microservice architecture to generate the functional, operational, and reachability status of each service offering, and then integrate and collate these data back into a cohesive json format which was then served through our API.Designed the system architecture specs to build the status API for the service offerings with minimal time lag, high responsiveness and scale, alongside load balancing capabilities and security.We used Java and SpringBoot framework to develop the code for the same and subsequently Dockerize the REST API for easy cloud deployments.

Project Title: Out of the Box Analytics for DasCode Deployments
Client: Cisco Systems
Nature of Employment: Full Time
Duration: Jul 2018 - Jul 2019
Project Location: Bangalore
Onsite / Offsite: Onsite
Skill Used: Spark, Apache, Docker, Python
Project Details: Cisco DasCode is a language-agnostic template based platform that allows allocation of docker-like container-based services to users, running on globally distributed VMs across one or more datacenters. A significant

challenge in this architecture lies in allocating the computing resources(also termed as box) optimally and distributing the service load in a fair-share manner, which is further complicated by the fact that each service requested by the users has their unique run time parameters, configuration and threshold limits corresponding to each run-time parameter. Performed logical Aggregations on the data to produce exploratory & operational analytics on a dashboard that reflects changes in near real-time. Used Spark MLlib in order to perform predictive analytics and garner knowledge about future trends for configuration parameters that the user particularly wants to monitor.

Project Title: End to End Secure Framework for Kafka
Client: Cisco Systems
Nature of Employment: Full Time
Duration: Dec 2017 - Jul 2018
Project Location: Bangalore
Onsite / Offsite: Offsite
Skill Used: Kafka, Zookeeper, Kafka-REST, Core Java, Acls, Unix,
Project Details: Designed, developed and implemented custom Authentication and Authorization framework for securing Kafka clusters and associated services like Zookeeper, Schema Registry and REST Proxy .The Gatekeeper Authenticator and Authorizer developed in this project is a custom JAVA based framework that allows for granular, role and rule based access control post user validation.Designed and developed the backend modules and APIs for both the Authentication and Authorization Services in JAVA.

Project Title: Chatbot
Client: Cisco Systems
Nature of Employment: Full Time
Duration: Mar 2017 - Dec 2017
Project Location: Bangalore
Onsite / Offsite: Onsite
Skill Used: NLP, Python, BotKit, WebEx API
Project Details: Built a retrieval-based Chatbot in order to automate Tier 1 and Tier 2 level support questions for uDeploy, uRelease, appDB, artifacts etc. It is also context-aware and can to a large extent emulate human KTO(Knowledge Transfer Operations) behaviour.
Features:Webex Teams Assistant: The Chatbot serves as a virtual automated Webex Teams room assistant that can intelligently provide answers to support questions across multiple business domains.
Designed a feedback-based ML model which is initially trained on historical conversations and updates itself automatically as and when the conversation progresses. The learning algorithm uses various NLP constructs, spell correction, synonym matching and various similarity and dissimilarity metrics over an NLP framework that harnesses the semantic similarity between sentences to arrive at an answer.

Project Title: Smart City Digital Platform
Client: Cisco Systems
Nature of Employment: Full Time
Duration: Aug 2016 - Mar 2017
Project Location: Bangalore
Onsite / Offsite: Onsite
Skill Used: Machine Learning, Path Flow Optimizations, Recommender Systems
Project Details: Developed & implemented path & optimisation ML algorithms to come up with a holistic recommender system for minimizing waiting time at traffic signals in smart cities. The City Digital Platform(CDP) is a one-stop platform that provides solutions to day-to-day municipal management issues in a smart city.
Features:
Data Acquisition Engine: The data is collected from sensor arrays installed in cities like Dubrovnik, Jaipur etc. and processed on two engines, namely the device engine(Real Time Analytics) and the data engine(historical data storage for future predictive and recommendation tasks). We came up with a modelling algorithm that can optimize traffic flow in a city by predicting parameters like traffic congestion, average wait time(derived feature) etc. at various road-segments and thus further recommend optimal signalling times for the same. This helped the city administration to reduce congestion and chaining effects in consecutive signalling points.

Affirmative Action

Category: General

Physically Challenged: No

Work Authorization

US Work Status: Need H1 Visa

Job Type: Permanent

Employment Status: Full time