

Gaurav Bajaj
Senior Software Engineer

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PROFESSIONAL EXPERIENCE (6+ years)

VMware Software India (*Senior Software Engineer*)

(Dec 2017 - Current)

Overview:

Responsible for creating **scalable, reliable and maintainable cloud native services**. The work requires an Expertise in **System Design**, Understanding of **Cloud Infrastructure** like **AWS**, **Programming** Expertise, **Operational Experience**, Knowledge on **Logging and Monitoring**, Following Best Practices of **Agile Methodologies**, **Problem-solving** skills at **Scale**, **Designing**, **Building** and **Operating** Fault-Tolerant, Scalable and **Distributed Software** and **Web applications**.

Core Responsibilities:

- Experienced in end-to-end software development in the cloud, including **Designing**, **Developing**, Deploying and Supporting systems. Been involved in entire software development lifecycle from understanding requirements to supporting the deployed system.
- Worked towards improving the **Stability**, **Performance Metrics** and **Handling Scale** of the service.
- Implemented the best practices of **Monitoring & Observability** (monitoring, logging, and tracing) to make our product more resilient to failures.
- Worked on R&D projects like **Building Recommendation Engine** using **ML & AI** technologies which focused on reducing operational burden by Automated Recommendation and Remediation.
- Lead R&D projects like **Building Q&A Portal** which aimed at providing correct information from various internal documentation sources quickly. Basically, it is a 1 click solution to find relevant information.
- Designed, Developed and Deployed **Microservices/RESTful services** on the cloud.
- Designed & implemented **Backend RESTful APIs**.
- Used Git, Jenkins, Docker and Kubernetes for **Continuous Integration, Development and Deployment**.
- Used **AWS** as the cloud solution and experienced in **Database** design and implementation.
- Used **Java and Spring boot** for developing the platforms with **Best Practices** of Coding.
- Built services to **Visualize Availability and Reliability** data points.
- **Mentored**, trained and guided junior members in the team.

Calsoft Inc. (*Software Developer*)

(July 2016 – Nov 2017)

Overview:

Worked as an Engineer **to automate the configuration for creating large datacenters**. Worked in the RnD team to explore new emerging technologies and provide company-wide training to build the knowledge base in the company which could bring in more projects to the company. Inculcated more automation in the practices of the company.

Core Responsibilities:

- Written **custom python modules** and **playbooks** in **Ansible** as a part of the project which relies heavily on **automation of networking I2/I3** environment
- Changed the **open-source code of Ansible** as per the use case of the project which required customization in callback plugin, connection plugin, etc.
- **RnD/training** on technologies: Ansible, Chef, Puppet, ELK, Cobbler, Vagrant and Docker

Dextorous Services (*Web Development Lead*)

(June 2015 – Feb 2016)

Overview:

Worked as a lead software developer to develop and deliver an **eCommerce platform**. The work required sound knowledge of designing and developing services within a quick span of time. The work also included Interacting and Getting the requirements from the Client, Managing the team, and Delivering requirements.

Core Responsibilities:

- Implemented and Integrated **Reviews and Ratings feature** within the web platform.
- **Written scripts for crawling** data from most of the educational websites (like shiksha.com, indiacollegesearch.com, etc.) after which the data was processed and stored in the database for the retrieval
- Integrated the **Search Functionality**.
- Implemented and integrated **Blogging Platform** within the website to get more **Traffic**.

PROJECTS (<https://github.com/bajai-gaurav>)

1. Title: Numerical TicTacToe

- Developed the game Numerical TicTacToe using **Reinforcement Learning** where the system is able to play the game with another player with a very high win ratio.

2. Title: Chatbot

- Developed a **chatbot** that can chat with the customer and give the optimal search result.
- It uses Natural Language Processing (NLP) to process and understand words.
- Used Rasa framework to develop the chatbot

3. Title: Hand-based Image Gesture Recognition

- Given a sequence of hand-based gestures, the tech was able to recognize the action which we are trying to do.
- The tech had the core which was built using **Neural Networks**

4. Title: Prayaas

- Website which aimed to help spread the reach of the social organization called Prayaas.

RESEARCH PROJECT

5. Title: Openstack Cloud

Institute: VNIT NAGPUR

The project was done to build a capability where-in the administrator could provide **compute resources** on-need basis to the students for their RnD purposes. Openstack was chosen to build the required infrastructure.

Configured **IAAS service in cloud(private)** with autoscaling. It provided functionalities similar to AWS AMAZON where a person can create instances and use resources as per requirements with extra features like load balancing and automatic orchestration.

EDUCATION

- *PG Diploma in Machine Learning (ML) and Artificial Intelligence (AI) from IIIT, Bangalore*
- *B. Tech degree in Computer Science & Engineering from Visvesvaraya National Institute of Technology, Nagpur*

TECHNICAL SKILLS

- Programming languages and Web development framework: Java, Python, Spring boot, Flask
- Architecture: Microservice, Distributed System, Cloud Native Services, RESTful Services, MVC
- DevOps: Git, Ansible, Jenkins, Solr, Docker, Kubernetes, Terraform, Kibana, Wavefront, Logz
- Incident Management: Jira, Confluence
- Machine Learning (ML) & Artificial Intelligence (AI), Data Analytics
- Other: AWS, Database design, Data Structures, Algorithms, Software Design, OOPs, Cloud, Queueing, Kafka, Postman, Locust, Junit, SQL, Mentoring, BigPanda, System Design, API Development, Data Engineering
- Testing: Unit testing, Functional testing, Integration testing, Performance testing, End to End testing(E2E)
- System Architecture, Software Development, Automation, Web Application Development, Agile Methodologies

ACHIEVEMENTS AND HONOURS

- Spot Awards in VMware (for the leadership skills)
- Appreciation for exceptional mentorship at VMware
- Best new-comer award at Calsoft (for the work excellence)
- Best mentor award at Calsoft (mentoring B.E. students and having the best outcome)
- Recognition for CSR activities (part of teaching community)
- Chess Champion at Calsoft
- Selected as an official mentor to guide the newcomers in the VNIT College, Nagpur
- Member of the core team for organizing national social entrepreneurship conference, RENAISSANCE 2016

PERSONAL TRAITS

- Strongly believe in Making Long-term Impact with a Futuristic Vision, Taking Full Ownership, Having Deep Knowledge & Understanding Concepts in Depth, Innovating and Delivering Results
- Ability to Produce results in Pressure situations
- Hard-working, Adaptable, Good Team Player
- Quick-Learner and Recognized Problem-Solving skills