

Shivansh Bajaj

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About me:

Software Engineer with a passion for developing innovative programs that expedite the efficiency and effectiveness of organizational success.

● EDUCATION AND TRAINING

20/07/2014 – 01/06/2018 – Rupa ki Nangal, Post-Sumel, Via, Jamdoli, Jaipur, Jaipur, India

BACHELOR OF TECHNOLOGY – THE LNM INSTITUTE OF INFORMATION TECHNOLOGY

Field(s) of study

- Computer Science

<https://www.lnmiit.ac.in/>

● WORK EXPERIENCE

01/09/2020 – CURRENT – Bangalore, India

SENIOR SOFTWARE ENGINEER – BAYER AG

- At Bayer Crop Science i work under small holder farmer division focused on project intended to provide agronomic advisory to improve yield of small scale farmers.
- Here my job role involves developing central platform services provided various functionalities for many of our B2C mobile and desktop applications like [Farmrise](#)(provide agronomy advisory to 5M plus users) and [Plantect](#)(greenhouse sensor data management and visualising tool).
- Some of these central services are event streaming service, crop issue identifier service, and customise ledger service.
- Event streaming service is a multi tenant data streaming application solving data collection problem for large scale and high cardinality data, working with amazon kinesis streams internally to with gRPC data input and mapper layer on the top. This service is mainly used for user behavioural data collection and transfer to data lake and data warehouse.
- Another service i worked with name Image based crop Issue identifier service was develop in collaboration with data driven farming team of bayer focus on functionality of providing crops disease identification with recommended chemical control practice solution on based of image based modelling. Here we work on developing an event base architecture to images and meta data collection and thus sequentially training and improving model with a rule engine to provide recommendation on based of model results. More information: [link](#)
- Apart from this i also design and develop centralise ledger service use to maintain both in house and external users transactional records. This is a high data intensive application providing custom indexed based aggregation and searching functionality.
- All this work was mainly build on Golang, JAVA taking use of many AWS data management services.

Agriculture, forestry and fishing | shivansh.bajaj@bayer.com | <https://www.cropscience.bayer.com/>

01/03/2019 – 31/08/2020 – Bangalore, India

SDE2: SOFTWARE DEVELOPER – WEINVEST

- Weininvest was a Singapore based fintech startup which provides robo-advisory services in a B2B2C and B2B model to banks.
- At Weininvest at first i was responsible to improve and scale advisory platform of Overseas bank of china, and Mubashar bank provided by banks to their end customers with assets under management of more than 50M SGD. Here, apart from continuous delivery of new features my day to day role also involve improving benchmark performance by optimising memory usage and finding memory leak by using various app monitoring tools.
- In the scope of modularising the codebase for providing better multi-tenant solution, company soon started to adapt more of micro-services based structure and thus i was reassigned for development of more centric order management system which provide real time order creation and global stocks trading functionality with multiple brokers integration such as SAXO bank and Schrodgers asset management.
- I also helped with developing continuous delivery pipelines working with docker containers which were deployed on AWS services.
- The technology stack which i worked here were primarily ruby on rails, NodeJS and python while working with tools like GraphQL, Elasticsearch and messaging queue like Kafka and AWS SQS.

Financial and insurance activities | <https://www.weinvest.net/index.html> | India

- I joined the startup as a founding engineer, primarily work on building a multi tenant logistic shipment aggregator for small scale business called Scaleship.
- While working on scale-ship project i was responsible to design and develop the domain and modelling for the application from scratch with integrations with various logistic solution provider like Aramex, Fedex, DHL, etc.
- I was also responsible to setup basic infrastructure and CI/CD automation primarily working with AWS services.
- The application was build using MERN(Mongo, express, react, NodeJS) stack.

Transportation and storage

● LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● PROJECTS

Open source contribution: OpenStates

github.com/openstates/openstates/commits?author=Shivansh-Bajaj

- While college i was also avidly involved in open source contribution with organisation name open states.
- Openstates provides data plane API to for USA legislature to Track bills, review upcoming legislation, and see how your local representatives are voting in your state.
- I worked here on multiple site and document scraping and parsing activity.

Open source contribution : SEASON OF KDE 2015 - GCOMPRIS

https://cgit.kde.org/gcompris.git/commit/?h=Sok_Activity_Awele

- In 2015 while i was in college i successfully complete [season of KDE](#) open source contribution program under project name GCompris.
- GCompris is a high quality educational software suite comprising of numerous activities for children aged 2 to 10.
- With GCompris i worked on porting of existing activities of GCompris from GTK+ to Qt-Quick Version and also develop of a strategic children game [Oware\(Awele\)](#) game with play with computer feature working on implementation of an alpha-beta prune algorithm.