

EDUCATION

IPG(B.Tech(IT)+M.Tech(IT))	IIT Gwalior	8.45/10	2011-2016
Class X, CBSE	Morning Star School Gwalior	88%	2008
Class XII, Intermediate Board(CBSE)	Morning Star School Gwalior	78%	2010

AREAS OF INTEREST

- **Data Structures**
- **Algorithms**
- **Optimization of Algorithms**
- **Machine Learning**
- **Android apps**
- **Building products to help improve the life of people**

SKILLS

- **Languages :** C, C++, Core Java, Ruby, Python, Golang
- **Operating Systems:** Mac OS X, Linux, Windows, Android
- **Tools :** Eclipse, NetBeans, Visual Studio, Apache, Oracle Weblogic, XAMP, Android Studio, Git, Postman, P4 merge, SublimeText, iTerm, Vim, Matlab, SourceTree, Jupyter Notebook
- **Databases :** Oracle, MySQL, SQLite, PostgreSQL, Redis, MongoDB, Amazon Redshift, Amazon DynamoDb
- **Web Technologies:** HTML5, CSS3, Bootstrap, Javascript, Ajax, J2EE, PHP, Struts framework, CodeIgnitor framework, Rails framework, Django framework, React, D3, Angular, JQuery, ES6, Underscore js, Node.js, Express.js, Socket.io, Serverless framework, GraphQL, Gin framework, Springboot, Hibernate
- **Web and App servers:** Nginx and puma
- **Other Tools :** Amazon EC2, Amazon S3, Amazon RDS, Amazon ECS, Amazon Elastic Beanstalk, Amazon SQS, Amazon kinesis, AWS Lambda, Jenkins, Docker, Kubernetes
- **Testing Tools:** Cucumber, Capybara, Rspec
- **Application type worked:** Microservices, Monolithic

WORK EXPERIENCE

- **Tech Lead @Byjus(August 2021 –Present)**

Currently I am working as Tech Lead at Byjus Bangalore. It's a product based company in Ed-Tech space with 100 million users. Currently working with RoR, Golang and Springboot. I am working on revamping the learn journey in the application, my work involves design and implementation of new features to make learning experience more personalized. Built server driven UI for app, building data pipelines and microservices for different features in the application, architected BFF layer for app optimization, architected the viral feature of Byjus app (Byjus Live Quiz).

- **Senior Software Developer @Neutrinos(Dec 2019 –July 2021)**

Worked as a Senior full stack developer at Neutrinos Bangalore. It's a product based company which sells SaaS based product in different countries. Worked on MEAN and Java Springboot stack. Worked on building an insurance portal, my work involved writing api's in node js and express js and building the front end using Angular and deploying the changes to google cloud. Worked on rule engine in springboot for defining the complex rules of insurance companies and calculating the premium based on user inputs.

- **Senior Software Developer @DocsApp(Feb 2019 –Nov 2019)**

Worked as a Senior full stack developer at DocsApp Bangalore. It's a product based health care company with 50+ lakh users. My work involved writing backend api's in Node js for the product and write new features to help user acquisition. Doing analytics using NumPy and Pandas to track the performance of system and drawing insights to improve the system performance. Creating microservices for building more scalable system. Worked on messaging application, improved delivery percentage by 40% and improved the message latency by 90%

- **Lead Developer @Determinant Studios Bangalore(September 2017 –Jan 2019)**

Creating the CRUD stuff and implementing design of projects. Writing backend api to be used by react app in frontend.

Writing the rake tasks to perform different tasks on the web server like sending email to clients, copying data in aws buckets and task for starting delayed jobs on web server.

Handling the security of website using different encryptions and two factor authentication system.

Deploying the application on server and testing it to ensure that things are working correctly.

- **Software Developer @Akriy Labs Bangalore(August 2016 –August 2017)**

I worked as a full stack developer at Akriy Labs Bangalore.

Designing multiple html pages for their products, writing backend logic for features. .Acceptance testing of features(Cucumber).Representing the data on UI in more interactive way using javascript libraries like React and D3.

- **Backend Developer Intern @Professional IT Solutions Gwalior (May'15 – July'15)**

Developed a website for transport company to update information regarding transportation of goods from one place to another

- **Software Developer Intern @Target Private Limited Gwalior (May'12 – July'12)**

Developed an online shopping site for shopping mart to help boost their sale of goods and increase the overall revenue.

PROJECTS

▪ Research Projects

- **B. Tech Project (May'14 – Oct'14)**
Developed optimized solution for the Economic Load Dispatch problem using the artificial bee colony algorithm and taking ideas from other swarm-based algorithms.
- **M. Tech Project (May'15 – May'16)**
Developed a hybrid algorithm by combining the particle swarm optimization and gravitational search algorithm to forecast the energy consumption. The paper got accepted in an international conference ICACCCT 2016 held in Chennai

▪ Internship Projects

- **Online Shopping Site (Intern May'12 – July'12)**
Developed an online shopping site for Target Private Limited Gwalior using J2EE technology and collection framework of core java.
- **The Great Mind Challenge (TGM), 2012**
Developed an online market site using J2EE technology as a member of the team "GRADIENT".
- **Online Examination System**
Developed a website for conducting various kinds of online examinations in colleges.
- **Online Transport Management System (Intern May'15 – July'15)**
An intern project at Professional IT Solutions Gwalior developed a transport management system for a transport company. I used core java collection framework, J2EE technology and other web technologies to develop the site.

▪ Hobby Projects

- **Mood Scanner App (<https://bit.ly/2DQhJ4Y>)**
A fun app which shows you what your mood is when you press your thumb on the screen of the app. I have used animations to improve the user experience and graphical user interface of the app.
- **Weather App (<https://bit.ly/3pwY5VQ>)**
It's a weather app which gives you the current state of the weather which includes the current temperature, humidity, wind speed and other weather related parameters.
- **CalorieCounter App**
It's a cool app for fitness conscious people to keep track of their daily diet. You can add an item everytime you eat something and can delete it as you wish, it displays the total calorie intake of the day.
- **SmartNotes App**
It's a smart app to keep track of day to day activities of your life. It's features are adding a note if you wish to remember something important and deleting the note when the task is done.
- **MovieBook App (<https://bit.ly/2DRpibJ>)**
It's an app which shows the most trending movies. The users can see the reviews, ratings and the trailers of the movies. A user can mark movie as favourite movie and can filter movies based on rating and most popular.
- **Photon (<http://thephoton.herokuapp.com>)**
It's a photo sharing app built with ruby on rails framework. The user has to sign up and then start uploading his or her favourite pics. The users can follow each other and based on follower following relationship newsfeed is populated for user to see the most latest pics shared by other users
- **ThoughtsSpace**
It's a rails app which is similar to other social media apps like facebook where users can post stuff, follow other users and follow topics of their interest. I have used react in this app to improve the user experience while posting stuff and to improve the site performance.
- **Restaurant Management system**
It's a rails application which allows the restaurant to post the items available in restaurant and set the corresponding price of each item. The users can browse the items available, add and delete the items in cart and purchase items. I have used stripe to make payments in this app.

▪ Products worked

- **Byjus(<https://bit.ly/3JyqISC>)** It's a EdTech product with 100 million users. Worked on various viral features of the product like learn journey, byjus live_quiz, SDUI and many more. Increased the conversion percentage (free to paid) of users from 5% to 20% thus helping in increase of revenue.
- **Neutrinos(<https://bit.ly/3XrH7s2>)** : It's an insurance product, worked on neusprout(insurance portal) from scratch which was sold to singapore based company.
- **DocsApp(<https://bit.ly/2a98gYa>)**: It's a health care product which is being used by patients to connect to best doctors in India. The patient can chat with the doctor as well as talk to the doctor. Once the consultation is over a prescription is sent to the patient . There are different payment gateways which are integrated in the system to receive payments. There is a separate section in the product for booking labs and buy medicines online. It's a vast system with 50+ lakh users and growing rapidly.
- **StashWealth(<https://www.stashwealth.com/>)**
Its platform which is designed for US based firm StashWealth which helps people to save taxes in USA, the backend of platform is build with ruby on rails and frontend is build with html,css and bootstrap. It's a very big system which involves payments,booking the meetings and delayed jobs which send emails from time to time.
- **Bataz (<https://mybataz.com/>)**
It's a brand communities platform which is like a social media network for fashion. In this platform people can follow others, like, comments and share posts. Technology used Ruby on Rails, React
- **Alpha (<https://alphaiq.online>)**
It's a platform build for US based firm Visual IQ.It's a platform build to keep track of organization hierarchy and keeping track of different tasks going in an organization.Technology used Ruby on Rails, React and D3 to build the entire platform.

PUBLICATIONS

- Y. Manjhi and J. Dhar, "Forecasting energy consumption using particle swarm optimization and gravitational search algorithm," 2016 International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), Ramanathapuram, 2016. <http://ieeexplore.ieee.org/document/7831673/>

ACHIEVEMENTS

- Secured 90 percentile All India Rank in AIEEE 2011 had over 12 lakh aspirants
- Secured 85 percentile All India Rank in Gate 2016 had over 1 lakh aspirants
- Secured second position in painting competition (state level competition) organized by Dainik Bhaskar Group
- Participated in TGMC 2012 organized by IBM and made a software project on E-Mandi which is electronic vegetable market
- Participated and won many prizes in Science Olympiads and Essay writing competitions
- Participated in sports events and won many prizes

STRENGTHS

- Logical analysis to any given problem at hand.
- Good listener & provides guidance & support to peers.