

# Amit Agrawal

SOFTWARE DEVELOPMENT ENGINEER | CREATIVE PROBLEM SOLVER

425, Hukumchand colony, Indore, Madhya Pradesh 452002

☎ (+91) 7869414716 | ✉ amitagrawal235@gmail.com | 📱 aagraw2 | 🌐 amitagrawal235

## Education

### Birla Institute Of Technology and Science, Pilani

Pilani, RJ

B.E. (Hons.) | CGPA 7.68/10.0

2015-2020

- **Relevant Courses:** Object Oriented Programming, Operating Systems, Machine Learning

### CBSE Class XII (Science)

Indore, MP

SHREE VAISHNAV ACADEMY | 92.2%

2015

## Skills

### Languages

Javascript, Typescript, Python, PHP, HTML, CSS, 𑂔𑂗𑂢𑂰

### Tools/Frameworks

AWS, Kubernetes, Docker, mongoDB, SQL, Redis, Node.js, Express, NestJS, React, Laravel, Blade, Handlebars, Bootstrap, Flask, Gitlab, Sentry, Graphana, OpenTelemetry

## Experience

### Simply Vyapar Apps Pvt Ltd

Bangalore, KA

SOFTWARE DEVELOPMENT ENGINEER

June 2021 - Present

- Worked with datastores like SQL, mongoDB, Redis, etc and MVC frameworks including NestJS, Handlebars, Laravel, Blade, etc.
- Implemented payment interface, monitoring and reverification system with Razorpay leading to reduction in drop-offs by 20%.
- Created agent assignment, call scheduling, feedbacks and commissions management system for various internal support teams.

### Hyperverge Inc.

Bangalore, KA

SOFTWARE DEVELOPMENT ENGINEER

June 2020 - June 2021

- Worked on enhancement of microservice architecture and created a cloud-agnostic stack for SEA nations. Setup CI/CD using Gitlab.
- Converted the synchronous architecture to Asynchronous event-based architecture thereby reducing response times by about 40%.
- Set up performance monitoring system with elasticsearch as well as alerts using graphana and opsgenie to achieve 99.9% uptime.
- Used tools like sentry, opentelemetry as well as set up test environment to reduce 5xx error rates to almost zero.
- Used kubernetes to setup a job orchestration and scheduling system for improving efficiency in GPU usage for model training.

### Morningstar, Inc.

Mumbai, MH

TECHNOLOGY INTERN

Jul 2019 - Dec 2019

- Developed micro-services and RESTful APIs using AWS components such as s3, lambda, dynamoDB, CloudWatch, Splunk, etc.
- Performed extensive integration testing as well as unit testing for the same JUnit 5 and mockito framework.
- **Recognition:** Awarded Morningstar monthly SPOT Award for September 2019.

### Central Electrical Engineering Research Institute (CEERI – CSIR)

Chennai, TN

RESEARCH INTERN

May 2017 - Jul 2017

- Worked on "Embedded Wireless-Enabled Plastic Waste Sorting System" using python language and Raspberry Pi Operating System.
- Implemented Spectral Angle Mapping Algorithm to segregate different kinds of plastics by comparing their NIRS spectra.
- Developed a GUI in python using tkinter toolkit for remote monitoring, spectral data collection and information management.

## Academic Projects

**Jan 20- Jun 20** **AN OPTIMIZATION MODEL FOR VRP IN DELIVERY OF NON-PERISHABLE GOODS** - Implemented optimization algorithms like Intra-route Local Search, Inter-route Local Search and TABU Search that provide a sub-optimal solution to this NP-hard problem. Compared Cost and CPU-time metric and effect of instance size.

**Aug 18 - Dec 18** **CORPORATE CREDIT RISK ASSESSMENT USING MACHINE LEARNING AND STATISTICAL METHODS** - Analyzed determinants of Credit default risk and modeled default risk behavior of firms with a training accuracy of 80.78%.

## Leadership

**Jan 18 - May 18** **Project Leader, Gyanbodh (Baas), Nirmaan Organization**, led a team of more than 20 volunteers working for holistic and sustainable development of Baas community having 600+ beneficiaries.

## Honours & Awards

2014 **KVPY Fellowship (Awardee)**, Dept. Of Science and Technology (DST), Govt. of India

2013 **NTSE Scholarship (Awardee)**, National Council Of Educational Research And Training (NCERT), Govt. of India