

SOFTWARE DEVELOPMENT ENGINEER | CREATIVE PROBLEM SOLVE

425, Hukumchand colony, Indore (MP)

□ (+91) 7869141716 | **■** amitagrawal235@gmail.com | **□** aagraw2 | **□** amitagrawal235

Education

Birla Institute Of Technology and Science, Pilani

Pilani, RJ

B.E. (Hons.), Mechanical Engineering and M.Sc. (Hons.), Economics | 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%

Experience

Hyperverge Inc.Bangalore, KA

SOFTWARE DEVELOPMENT ENGINEER

June 2020 - present

- Worked on enhancement of microservice architecture and creation a cloud-agnostic stack for SEA nations in AWS, Azure and Alicloud.
- · Converted the synchronous architecture to Asynchronous event-based architecture thereby reducing response times by 40%.
- · Set up alarms using cloudwatch metrics, graphana and opsgenie based alert mechanism to achieve 99.9% uptime.
- $\bullet \ \ \text{Used tools like sentry, open telemetry as well as set up test environment to reduce error rates to almost zero.}$

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.
- Participated in AWS DeepRacer Challenge, trained autonomous race car using Reinforcement Learning, best lap-time = 10.19 s.
- Recognition: Awarded Morningstar monthly SPOT Award for September 2019.

Central Electrical Engineering Research Institute (CEERI - CSIR)

Chennai, TN May 2017 - Jul 2017

RESEARCH INTERN

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

Skills

Operating Systems macOS, Linux, Microsoft Windows

Languages Python (intermediate); R (beginner); Fortran (beginner)

Tools Bash (intermediate); C-shell (intermediate); Radio Astronomy software (AIPS, CASA, eMERLIN CASA Pipeline)

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.(https://github.com/aagraw2/route-planner)

Size.(https://github.com/aagrawz/foute-planner

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 to improve accuracy of default predictions. Achieved a training accuracy of 80.78% using an ensemble of SVM, Decision tree and KNN classifier.(https://github.com/aagraw2/sop-nvms-eco)

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
- 2012 National Standard Examination in Junior Science (NSEJS) (Cleared), Indian Association of Physics Teacher (IAPT)

March 6, 2021 1