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| https://www.linkedin.com/in/sambhav-yadav-nsit/ | | **Sambhav Yadav** | +91-9560519632  sambhav2k@gmail.com | |
| **Employment** | | | | |
| **Software Development Engineer II** | | **Amazon** | Oct 2020 – Present | |
| * World Wide Capacity Planning (WWCP) team: Most recent project was optimally scheduling shifts for associates based on their preference and also reducing the cost over the complete network. This replaced the manual work done by **thousands of capacity planning analysts** and benefitted more than **100k** Customer Service Associates (CSAs) of Amazon. Tech: Native AWS, Built several micro-services, Optimization model to assign shifts was based on Linear Programming Mentoring 2 SDEs. | | | | |
| **Software Development Engineer** | | Amazon | Nov 2018 – Sept 2020 | |
| * World Wide Capacity Planning (WWCP) team: Designing and implementing solutions for uploading large schedule files for associates; Built Non-Productive time scheduler tool for operations which brought in **1.2 FTE savings per site**; Was the Operational health champion for the team, processes & solutions introduced by me brought in **~40% reduction in high severity issues** over the course of an year. | | | | |
| **Associate Software Engineer** | | **Qualcomm Inc.** | **July 2018 – Oct 2018** | |
| * Worked in Modem team to implement 3gpp protocols for 3G & 4G networks. | | | | |
| **Education** | | | | |
| **B.E. in Computer Engineering LGPA: 8.5/10** | Netaji Subhas Institute of Technology (NSIT), University of Delhi | | | **July 2014 – May 2018** |
| |  |  |  | | --- | --- | --- | | **Class 12 (94.6%)** | Central Board of Secondary Education | **2013-2014** | | **Class 10 (GPA: 10/10)** | Central Board of Secondary Education | **2011-2012** | | | | | |
| **Publications** | | | | |
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| **Trust aware recommender system using swarm intelligence (Journal of Computational Science, published by Elsevier)**: Calculated trust between users using multiple metrics & assigned weights to the generated trust value using swarm intelligence techniques (PSO, Bat). This weighted trust between users helped generate recommendations with an MAE of 0.55.   * **An Improved Collaborative Filtering Based Recommender System using Bat Algorithm (International Conference on Computational Intelligence, published by Elsevier):**  Used meta-heuristic technique (Bat Algorithm) to compute weights of items which helped in finding better neighbourhood of a user in collaborative filtering. This technique produced personalized recommendations which were at that time proven to be 6.9% better than the Artificial Bee Colony based approach. | | | | |
| **Languages and Technologies** | | | | |
| * C, C++, Java, SQL * Designing of resilient distributed systems in Native AWS (Dynamo DB, Lambda, ECS, Batch, SQS, VPC etc.) * OOP, Guice, Spring | | | | |
| **Additional Projects & other Achievements** | | | | |
| * **Other Personal Projects:** Spam Classifier for emails, Optical character reader to recognized handwritten text. * Scored more than 99 percentile in Problem Solving Assessment conducted by CBSE (2013). * Got certificate of appreciation from the then HRD minister for securing 98 marks in Computer Science class 12 board examinations | | | | |