Gaurav Agarwal

Shiv Niwas, 8 Moti Nagar, Jhotwara, Jaipur, Rajasthan, 302012 | **+918237570342 |**
agagaurav96@gmail.com, Github UserName - gauravagarwaltal

Education

VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY (VNIT), NAGPUR
BACHELOR OF TECHNOLOGY (COMPUTER SCIENCE)
July 2014 - May 2018
MHS, JAIPUR
HIGHER SECONDARY EXAMINATION
July 2012 - May 2013

Experience

SOFTWARE ENGINEER | TALENTICA SOFTWARE PVT. LTD | MARCH 2019 - PRESENT

Gosig Consensus

Read research paper on Gosig consensus (Byzantine Consensus) and using this consensus built blockchain from scratch including p2p, real-time transaction and block processing. By doing this project, I was able to understand core blockchain concept, cryptography,

Technology used: Python.

Sidechain (Plasma-cash)

Did research on Plasma FrameWork and understood the core concept of blockchain second layer solution. After this built a poc on top of plasma cash which create a scalable blockchain application.

Technology used: Plasma-Cash, Solidity, Python, React

Payment-Channel

Built a POC for a blockchain off-chain transaction(payment-channel). For that, I created a smart-contract and signature schema. This application provides real-time transaction finality with blockchain tamper-proof security.

Technology used: Smart-contract Solidity, Python, React

Simple Blockchain

We are working on a project which aims to create a blockchain framework which will be generic enough to give users accessibility to create their own blockchain application on top of it.

Technology used: Rust

ASSISTANT MANAGER | RELIANCE JIO INFOCOMM LTD | JUNE 2018 - MARCH 2019
5G Project
Successfully offered first released of 5G project last week which is a load balancer between other 5G component. In this project the whole Apache Kafka part handled by me which is responsible for inter-cluster Data transfer (replication). This project is a core part of Telecommunication and this project handle how User Equipment (Ex- mobile) is attach detach with different network and respectively their Rules & Charging Functions and communication with respective interfaces.
In this project, I also worked on Alarms, Counters, Live Command Line Monitoring, and Thread Pool etc.
Technology used: Java.

Learned new Technology such as Apache Kafka, J2EE, Java Advanced Framework (Http2, Netty server, Logger, apache POI, JSON), used Java API of Cassandra, MongoDB, Neo4j and explored Hadoop, Hbase.

INTERNSHIP | ATOS INDIA PVT LTD | PUNE | MAY 2017 – JULY 2017
Developed an Application Which do analysis and Regression on Excel workbook data and convert that into PPT having charts (bar, pie), table and make a prediction for the coming quarter.

Technology used: Visual Basic, R

MAJOR PROJECTS UNDERTAKEN

MOVING OBJECT DETECTION AND TRACKING (FINAL YEAR PROJECT)
· Project based on Object Tracking in different Scenario like dynamic background, Multiple Object Tracking, angle detection within multiple Camera recordings.
· Number Plate Recognition for Vehicle detection (with limitations).
· Use Case- Hit and Run
Technology used : OpenCV, Python, Image & Video Processing

M-COLORING PROBLEM (CONSTRAINT SATISFACTION PROBLEM)
· The aim of the project was to make a program which finds the minimum number of colors our input graph will be colored.
Technology used: Java, Artificial Intelligence.

N-QUEEN PROBLEM
· The aim of the project was to make a program which will place N chess queens on an N*N chessboard so that no two queens threaten each other.
Technology used: Java, Artificial Intelligence(Genetic Algorithm Mutation)

WEB CRAWLER
· The aim of the project is to make a program which does indexing for any given website.
Technology used: Python.

LIBRARY DATABASE MANAGEMENT SYSTEM
· The aim of the project was to make a program which manages students issued books record using AVL tree and Linked-List.

Technology used: C, Data Structure & Program Design.

COMPUTER PROFICIENCY

Programming Languages:	C, C++, JAVA, PYTHON
Web Designing:	HTML, CSS, JavaScript
DataBase Management:	SQL, Cassandra
Data Analysis:	R, Microsoft Excel
Cloud Computing:	AWS
Operating System:	Linux, Windows
Version Control	Git
IDE	Eclipse, Pycharm, Rstudio, CodeBlock, Netbeans, Qt, Anaconda