Prakash Tiwari

INTERN AT GOOGLE SUMMER OF CODE | SYSTEM DESIGN | COMPUTER NETWORKS | COMPETITIVE PROGRAMMING
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EDUCATION

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
July 2017-June 2021 | Dehradun
B.TECH IN COMPUTER SCIENCE ENGINEERING
CGPA: 7.53

GOVT. MARTAND H.S. EXCELLENCE SCHOOL
July 2015-May 2016 | Rewa
HIGHER SECONDARY
PERCENTAGE: 84

COURSEWORK

DETAILED COURSEWORK
System Design, Data Structures
Analysis of Algorithms, Database
Object Oriented Design, XML
Software Engineering, Mathematics
Operating System, Computer
Networks, Open Source Development
Methodologies

SKILLS

• PROGRAMMING LANGUAGES -
C++ • Java • C(basics) • PL/pgSQL
• OPERATING SYSTEMS-
Linux (Primary) • Windows 10
• DATABASE AND TOOLS -
MySQL,PostgreSQL, CMake, Git &
GitHub, pgTAP Unit Testing, Eclipse,
VSCode, Android Studio
• FAMILIAR:
BOOST C++ • PHP • HTML CSS •
JavaScript

CERTIFICATIONS

VIEW CERTIFICATES
• Open Source Software
Development,Linux and Git
• TCP/IP and Advance Topics
• Competitive Programming
• Introduction to Git & GitHub
• Programming in Java

EXPERIENCE

GOOGLE SUMMER OF CODE | INTERN
May 2020- September 2020
• Working in the project pgRouting under Open Source Geospatial Foundation
• Implemented Lengauer Tarjan Dominator Tree And Bipartite graph for pgRouting
• The technologies used postgreSql,c++,boost c++, pgTap unit testing
• Written 200+ unit tests using pgTap and completed the user documentation for the project
• Founded bug on Two Graphs Common Spanning Trees of boost library, the algorithm did not giving the expected results.

PGROUTING | OPEN SOURCE CONTRIBUTOR
February 2020 – Present
• Member of pgRouting organization in GitHub.
• Implementing functionalities for pgRouting.
• Opened Issues and Solve them, Approve pull requests and Merged many pull requests.

PROJECTS

DATA COMMUNICATION IN SOFTWARE-DEFINED WIRELESS NETWORKS
Jan 2020 – May 2020 | GitHub Link
• **Technology:** C++,Thread,Linux
• Simulation of parallel data transmission in packets between Source and Destination node with minimum cost
• Calculated packet delivery ratio and throughput of the data transmission.

CRYPTCOM : FAST AND SECURE COMMUNICATION
August 2019 – December 2019 | GitHub Link
• **Technology:** C,Linux
• Communication between individual users is established via Socket Programming. Data Encryption is achieved by RSA and data Compression is achieved by Huffman.

LIBRARY MANAGEMENT SYSTEM
September 2019 – November 2019 | GitHub Link
• **Technology:** Java, Android,XML,Android studio
• It is an android application. It has user and admin two separate logins.
• This application provides various facilities to the users such as Book Issues, Available books in the library etc.

AWARDS AND ACHIEVEMENTS

• Selected in Google Summer Of Code 2020.
• Scored 88% and got an Elite + Silver Certificate in Programming In Java conducted by NPTEL.
• Top 10 Rank in Institute in GeeksForGeeks.
• More than 1000+ code submissions in various coding HackerRank, Codechef, Codefoces, GeeksForGeeks.