HARSHIT WALIA
DTU/2K15/CO/060

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EDUCATION

Name of Course	2013-2019	College / Institution	% / C.G.P.A
Bachelor of Technology (Computer Science)	2015- 2019	Delhi Technological University, Delhi	**9.10**
AISSCE (Class XII)	2015	Modern Public School, Delhi	**95.8%**
AISSCE (Class X)	2013	Modern Public School, Delhi	**10.0**

LANGUAGES

- ❖ **C++, Java, C, Python, Bash**   (Proficient)
- ❖ **JavaScript, SQL**   (Intermediate)
- ❖ **MongoDB, JQuery,Hadoop, Slang**   (Experience)

WORK EXPERIENCE

- ❖ **Software Development Engineer II at Amazon, Gurgaon, India**(August, 2022 to Present)

- ❖ **Backend Developer at Goldman Sachs, Bangalore, India** (May, 2021 to July, 2022)
    - o <u>Team:</u> Inventory Management
    - o <u>Level:</u> Analyst
    - o <u>Role:</u> Developer in Global Markets Division, with special emphasis on creating intuitive trading platforms that track the firm's inventory in real-time and provide better visibility and control over intra-day liquidity, ultimately facilitating traders to act decisively.
    - o <u>Tech Stack:</u> Java, Slang

- ❖ **Software Engineer II at Tower Research Capital Ltd., Gurgaon, India** (March, 2021 to May, 2021)
  Software Engineer I at Tower Research Capital Ltd. , Gurgaon, India (June, 2019 to Feb, 2021)
    - ❖ *Product Development*
        - o Developed a low-latency Exchange Simulators for US venues (CME iLink3.0 in C++).
        - o Developed a low latency Order Sending Framework that takes a user configuration as input, performs a run, and publishes the run report
        - o Developed a heuristic tool that ensures to have a deterministic behavior in a high concurrency environment.
        - o Developed CI/CD pipelines for automating the testing setup.
        - o Mentoring new joiners in the team
    - ❖ *Analysis Experience*
        - o Analyzed different components performance like History Server, Trade Server, Recon Killer using the order entry framework
        - o Performed Proof Of Concept for initiating different projects like Market Data Triggering Simulation
        - o Displayed active participation in the overall SDLC cycle for order entry framework and exchange simulators
        - o Worked on analyzing the overall run time of the regression suite of the CI/CD pipeline using the code flow diagrams and optimized the overall performance
        - o Worked on restructuring an exponentially increasing database for making it sustainable with the current needs.
        - o Developed a PCAP profiler, which validated packets on PCAP layer and integrated that with the order entry framework
        - o Integrated Matplotlib in Order entry framework profiler to improving the overall visualization of the performance stats
        - o Integrated Allure report library with the Order Entry Framework for better management of the generated run reports
    - ❖ *Client Management*
        - o Worked closely with trading teams and internal teams for gathering requirements of the exchange simulator.
        - o Maintained confluence pages and SRS documents of these tools for sharing the documentation for these tools to a wider audience.
        - o Conducted weekly meetings for sharing updates with the stakeholders and tracked progress
        - o Providing active and continuous support on slack-channels
        - o Monthly presentations and demos to showcase the progress on the different projects
        - o Developed Jenkins Jobs for the promoting ease of adoption for order entry framework
    - ❖ **Keywords:** C++17, CMake, Python, Shell/Linux, iLink 3 Binary order entry protocol, FIX protocol,Jenkins, Pandas

ACADEMIC PROJECTS

❖ **Smart Portfolio Management**	**Major Project-I** ✓ A LSTM based model for Stock price prediction and based on various other statistical measures
❖ **Apparent Age Estimation**	**Summer-18 Internship at Samsung R&D Institute India, Bangalore** ✓ "How old the person look like?" ✓ Convolutional neural network(SSR-Net)
❖ **Constructing a Query Tree from Natural Language for Relational Databases**	**Natural Language Processing Project (Jan,2018-March,2018)** ✓ Python, Natural Language Toolkit ✓ Worked under Ms. Minni Jain, Assistant Professor at DTU to study how should a system represent and communicate its query interpretation to the user.
❖ **Carousel Project** ❖ **Replica of Fassos's Homepage**	**Web Development Project(2016)** ✓ **Front-end:** CSS, JavaScript and **Back-end:** Nodejs, Jquery

SKILLS

- ❖ **Rank 1** on **GeeksForGeeks** Leaderboard, **July, 2017(Overall Rank <50)**
- ❖ Active on various programming sites such as **Spoj** (harshit_walia), **Codechef** .

ACADEMIC ACHIEVEMENTS AND AWARDS

- ❖ Awarded shields for **scoring 99%(C.S.) and 96%(Physics)** in **12th CBSE Board**, **Topper of the subject**.
- ❖ Awarded **Gold Medal for 5 years consecutive 100% full Attendance** in School **(2006-2011)**.
- ❖ Secured **Third position** in **Maths Mind** held in **Mount Abu Public School, Delhi, year 2014**.

DECLARATION

I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief.