PRAVEEN GUPTA

Lucknow, Uttar Pradesh

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Experience

Siemens Healthineers   **April 2023 – Present**
Software Engineer - Design and Development   *Bangalore*

- Working for the **PMS Service Software** of the **X-ray Products** such as **Radiography, Fluorography**.
- PMS Service Software is responsible for Configuration, Software Installation, Software Download for Components(XCU,SCU,CCU), Backup/Restore, Report Generation and Adjustments.
- Feature Development for the product.
- Fixing defects & bugs and analysing the root cause for them.
- Software Development in **C++** .
- Using **TFS** for issue tracking , application lifecycle management and version control system.

Harman Connected Services Ltd   **Sept 2021 – March 2023**
Software Engineer - Product Development   *Bangalore*
Project :- PSA Caruso R2 to create a **In-Vehicle Infotainment System**.
Responsibilities :- Work in Middleware Native (C++) layer of Android that includes :-

- Development in **C/C++** for the **ADAS** Spy Module in the **Vehicle Domain**.
- Handling defects and warnings, analysis them to find the root cause.
- Android experience with bringing up, porting, stabilizing, and customising the **Android framework** in test-driven development.
- Good Knowledge of **C++ APIs**.
- Good Analytical and Debugging Skills.
- Improving software developers' efficiency by making logs short and concise so that they may be easily analysed.
- Developing unit tests for the Module using **Gtest (Googletest)**.
- Familiarising with **Embedded Systems**.

Education

- **78.6%** in **B.Tech(Computer Science & Engineering)** from ABES-EC (Ghaziabad).   **2017 – 2021**
- **92.2%** in the **12th** from Lucknow Public School.   **2016 – 2017**
- **89.2%** in the **10th** from Lucknow Public School.   **2014 – 2015**

Projects

Food Ordering System | *C++* ⬈   **June 2020**
  * Developed a **menu-driven project** in which a user orders food from a restaurant of his/her choice, and at last, the bill is given.

Banking Management System | *C++,OOPs* ⬈   **July 2020**
  * Developed a **menu-driven banking management system** that has various features like creating a new account, deleting an account, withdrawing money, depositing money, displaying information about the account, etc.
  * Implemented **OOPs** concepts like **encapsulation, abstraction, friend function members,different types of constructors**, etc.

Age, Gender and Emotion Estimation | *Python, OpenCV* ⬈   **Mar – June 2021**
  * Developed an API using **OpenCV** library in which we take images of a user and then predict their age, gender, and emotion.

Technical Skills

Languages: C, C++(OOPs, Multithreading), Python
Database: MYSQL(SQL)
Developer Tools: VS Code, Confluence, Android Studio, Beyond Compare, Jira, DLT Viewer, PCAN, DiagAlyser
Operating System: Linux, Windows
Version Control System: Git, GitHub, TFS
Hardware: AIDA Board

Areas of Interest

- Data Structures
- Algorithms Analysis

Publications

- The Research Paper **"AGE, Gender, and Emotion Estimation Using Deep Learning"** has been published in the Springer Series of **"Congress on Intelligent Systems Volume".**   **July 2022**
- Contributed algorithm-related programs and their analysis to the book "**A Practical Approach to Data Structure and Algorithm with Programming in C**".   **Nov 2019**

Achievements and Extracurricular Activities

- HackerRank **Advanced Problem Solving** Certification
- **Semi-finalist** in Techgig's Code Gladiator competition.
- Scored **97.8%** on the **Elitmus** Exam (an entry-level placement exam).
- Achieved **5th** rank in the **"Turing Test"** coding competition under the Enigma Programming Club.
- Qualified for the CST UP Science Talent **Scholarship** 2016–17 among **50,000** students.