

# SAPANA SINGH

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## CAREER SUMMARY

- About **5 Years of Software Development** experience with proficiency in **C++, Java and Python**
- Successful track record of delivering reliable and user-friendly products in **Gaming and Healthcare industry**
- Key Skills: **System Design, Data Structures, Design Patterns, OOPs and STL**
- Currently working as Senior Software Engineer at **Aristocrat Technologies** (online & slot Games Company) in Delhi
- Prior work experience with **Philips Innovation Campus** in Medical Imaging and Healthcare products
- Well versed with software development lifecycle and tools with a hands-on experience of coding, unit testing, integrations, performance optimizations, regressions and other programming best practices
- Strong problem-solving skills and excellent communication skills
- **Masters in Computer Science** with a strong academic record

## PROFESSIONAL EXPERIENCE

**Senior Software Engineer**                      **Aristocrat Technologies**                      **Feb 2019-till date**

### Software Development:

- Responsible for **developing games** and new features in existing games as per market requirements
- Took **ownership** of existing games, implemented new features & **resolved critical issues** in quick time
- Working closely with Mathematicians to implement the **desired algorithm and returns** for the game
- **Improved performance** of asset heavy games using code optimization **and low memory utilization**
- Included in the **code review team** & mentoring new joiners within six months of joining the company

### Achievements:

- **Promoted to Senior Software Engineer** within one year of joining the company
- Awarded **Employee of the Month** in Dec'19 for quickly learning & understanding the games architecture

### Assignments:

- **Project 1: Cash on Reels**
  - Technologies Used: **C++, Data Structure**
  - Project Details: This game is one of the new concepts designed by the studio. Implemented new concepts line SGMD, Cash on Reels.
- **Project 2: Crazy Rich Asians Game**
  - Technologies Used: **C++, Data Structure**
  - Project Details: This game is inspired by Crazy Rich Asian movie. Implemented new multi slot feature in this game and optimized performance of animations
- **Project 3: Recording and Playback of Robot and Normal Game play**
  - Technologies Used: **Python Automation Framework**
  - Project Details: Developed an automation framework to simulate and record game play in order to observe any anomalies and reproduce scenarios leading to bugs or issues

**Software Engineer**                      **Philips Innovation Campus**                      **June 2016-Jan 2019**

### Software Development:

- Development of new features in medical software products as per customer requirements
- Identified and resolved bugs within scheduled time without any breakage in existing features and no adverse impact on the product
- Responsible for Unit Testing for code coverage; conducted peer code reviews

- Created test document, extended support to testing team to ensure quality & timely release of products
- Responsible for identifying and implementing productivity ideas which bring savings and adds values to the product

#### Achievements:

- SPOT award for quick learning and understanding of the project as a new joiner
- **Selected** in of a team of 10 people to work on a **cross functional project** in **Amsterdam**
- Awarded **Pre-placement offer after internship with Philips**

#### Assignments:

- **Project 1: Evolution-XrayWorkflow**
  - Technologies Used: **C++, Data Structure**
  - Project Details: XrayWorkflow is the service running in the Azurion system. The main responsibilities of XrayWorkflow to maintain the study states of all the procedures level information of patients in the database. It maintains the information of currently selected patient on the table and provides the functionality to select suspend or complete the examination of a patient.
- **Project 2: DataHandler**
  - Technologies Used: **Java, Data Structure**
  - Project Details: Data Handler is the application used to show the list of all patients and their related information. It is used for review of Dicom images, generating Dicom report of images and transferring Dicom images between different healthcare systems by configuring Dicom nodes.
- **Project 3: SystemCustomization & Audit Trail for Azurion**
  - Technologies Used: **C++, STL**
  - Project Details: SystemCustomization is the application which is used to host all the applications from the Azurion System. To add a dicom node and to configure the network for export import and restore/backup of the system is provided by this application.

#### TECHNICAL SKILLS

- Programming Skills : **C++, C, Java , Python, Data Structure**
- Design : **Core Design Patterns, System Design**
- Medical Imaging Standard : **Dicom Standard**
- Operating System Skills : **Windows 7/10, Linux**
- Web services : **REST**
- Concepts : **OOPs, Data Structure, STL**
- Tools : **Microsoft Visual Studio2015, IBM Rational Clear Case, JIRA, FishEye, Jenkins, TIOBE**

#### EDUCATION

Year	Degree	College	Percentage
2016	Master Of Technology, Computer Science	Nirma Institute of Engineering and Technology, Ahmedabad	82%
2013	Bachelor of Technology, Computer Science	GIT, Jaipur	80%