

# CURRICULUM VITAE

**NIRBHAY KUMAR PANDEY** (c++11/QT developer)

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## **C++11 concepts :**

1. literals. 2. const vs constexpr vs constant expression. 3. literal types. 4. decltype. 5. default function argument. 6. static types vs dynamic types of pointer/references. 7. lvalue and rvalue reference. 8. lvalue, rvalue, glvalue, prvalue, xvalue. 9. base type and compound type. 10. lambda expressions. 11. 3-4 different types of friend function/class. 12. default initialization and value initialization. 13. order of evaluation. 14. synthesized default constructors. 15. constructor initializer list. 16. passing this pointer from one member function to another. 17. implicit class type conversion. 18. deleted functions. 19. classes whose objects can't be copied(ex, ostream objects). 20. smart pointers(3 types : shared, unique, weak) 21. interaction of smart\_pointers with new. 22. about 20 golden rules of copy control. 23. template programming. 24. move constructors and move assignment operators. 25. rules of deciding when copy control members are deleted. 26. virtual functions. 27. pure virtual functions. 28. accessibility of derived to base conversion.

## **STL containers used :**

1. array 2. vector 3. deque 4. forward\_list 5. list 6. set 7. multiset 8. map 9. multimap 10. unordered\_set 11. unordered\_multiset 12. unordered\_map 13. unordered\_multimap 14. stack 15. queue 16. priority\_queue

## **QT :**

1. QSerialPort 2. Custom classes derived from QWidget 3. QPushButton 4. QLabel 5. realtime IPC using QsharedMemory 6. Signal/Slot connection by Designer window and by code 7. promoting widget to custom class 8. QDialogBox 9. .qrc file 10. QLineEdit 11. QStackedWidget

**Other tools :** Creating Makefiles, Qmake, Cmake, GDB, GIT, Cuda, Google-Colab cloud service.

**Other languages :** Python, Java

## **Work Experience :**

Organization	Role/Post	From	To
Processware Systems Pvt. Ltd. (DRDO)	Software Engineer	April-2022	Till date
Agva Healthcare, Noida	QT developer	Oct-2021	April-2022
Biztechnosys infotech Pvt Ltd. , Bangaluru	Develop software using C#	Feb-2020	Mar-2020
R.C.I.T. , Bishrampur	Assistant Professor	Feb-2012	July-2017

Anupam Technologies Pvt. Ltd. ,  
Kolkata

International Outbound Call  
centre executive

July-2009  
(approx)

Sep-2009  
(approx)

#### Education :

Examination	University/Board	School/College	Year of Passing	Performance
M.Tech in I.T. (specialization – Software Engineering)	I.I.I.T. Allahabad	I.I.I.T. Allahabad	2019	7.85/10
M.Tech in C.S.E.	W.B.U.T.	Kalyani Govt. Engg. College	2013	7.14/10
B.Tech in I.T.	W.B.U.T.	Kalyani Govt. Engg. College	2010	7.48/10
Diploma in CST	W.B.S.C.T.E.	BIT ,Katwa	2006	74.6%
Higher Secondary	W.B.C.H.S.E.	B. C. College, Asansol	2002	48.5%
Metriculation	W.B.B.S.E.	Sodepur Colliery High School	2000	65.25%

#### Achievements :

- 98.7 percentile in Gate 2016 having Gate-Score 631 and rank 1311.

#### PROJECTS :

1. Developed UI of ventilator in QT creator.
2. Face recognition using PCA.
3. Search engine for large document corpus using inverted index.
4. MNIST digit recognition by CNN.
5. Plant seedling(having 12 classes) classification using CNN.
6. Image Compression by ConvLSTM

#### PERSONAL STRENGTHS :

1. Strong C++11 knowledge.
2. Comprehensive problem solving abilities.
3. Good verbal and written communication skills.
4. Willingness to learn.
5. Using Linux mint and ubuntu from last 4 years.

#### Communicating languages:

English, Hindi and Bengali.

#### Declaration:

I hereby declare that all the information given above are true to the best of my knowledge and belief.

Date:

Place:

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Signature  
(Nirbhay Kumar Pandey)