CURRICULUM VITAE

NIRBHAY KUMAR PANDEY
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C and C++11 Programmer
https://www.codechef.com/users/nirbhay57
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EXPERIENCE SUMMERY:

- Having **5+** years of teaching experience. Taught all major computer science subjects of B.Tech.
- **10+** years of C/C++ development in Turbo C/C++ from **2004 to 2014.**
- From recent past 2+ years(2019-2021) have been coding in modern C++11 with STL on codechef.
- Good communication, presentation skills and positive attitude.
- Good estimation and planning skills.
- Strong analytical skills and enjoy solving complicated technical problems.
- Strong communication, teamwork and consensus-building skills.
- Ability to excel in a high-pressure environment.
- Strong understanding of modern C++, Data Structure, STL and Algorithm.
- Knowledge of socket programming**.**
- Experience in development using multiple files using best C++ practices in Windows(VC++) and Liinux(G++, gcc) plateform.
- Hands on experience on **g++11/14/17, STL, gcc, GDB, Python3, SQL Database.**

STRENGTHS:

- Good team player.
- Positive attitude.
- Committed towards work with proper time management.
- Ability to grasp new technology.

EXPERIENCE PROFILE:

- Having 5+ years of fully devoted teaching experience and satisfactory 98.7 percentile in GATE makes me a good fit for technical jobs requiring in-depth technical and theoretical knowledge.

ACADEMIC PROFILE:

- Attained M.Tech from Indian institute of information technology, Allahabad (in I.T. having specialization Software engineering) with score 7.85/10 in 2019.
- Attained B.Tech (I.T.) with score 7.48/10 from Kalyani Govt. Engg. College in 2010.

PROFESSIONAL EXPERIENCE:

Organization	My Role/Post (Legal)	From	To
Greeksoft Technologies pvt. ltd	C++ developer	June-2021	
Biztechnosys infotech Pvt Ltd. , Bangaluru	Develop software using C#	Feb-2020	Mar-2020
R.C.I.T. Bishrampur.	Assistant Professor	Feb-2012	July-2017

TECHNICAL EXPOSURE:

- **Skills**: C, C++, Data Structure & Algorithm, STL, Multithreading, MFC, VC++, BOOST, Python, Java, SQL, Dos internals, Windows registry, TSR in C.
- **Platform**: Windows-95,98,ME,,2000,XP,7,8,8.1,10, Ubuntu, Linux-mint-17,18.1,18.2,20.1
- **IDE**: Turbo C/C++, Microsoft Visual Studio 2010,2019 , QTCreator, QT, G++, GDB,VS Code.
- **Database**: Microsoft SQL.
- **Client Application**: HTML, CSS, .NET

CAREER HIGHLIGHT:

- Won several appreciations from the seniors and project guide for completing several projects well before deadlines and provided elaborative and conceptual explaination for several projects in IIIT, allahabad.

- Understood the complex concept of SVM in machine Learning.
- Achieved 3 stars on codechef competitive programming plateform.
- **98.7** percentile in GATE-CS-2016.
- Have developed strong foundation in theoretical computer science and proof techniques.

PROJECT PROFILE:

Project #1 : Face-Recognition using PCA
Technologies : Python3, numpy cv2, matplotlib
Role : Requirement writing, Requirement Analysis, Design, Development, Code Review, Unit Testing.
Environment : Linux-mint 18.2
Details :

- Collected images of 10 people.
- Converted/cropped them to 100*100 pixel.
- Subtracted the mean face from all 10 images.
- Using mathematical orthogonal transformation, extracted top K dominant features.
- Using eigen-faces, final face-recognition process was done.

Project #2 : Search engine for large document corpus using inverted index.
Technologies : Python3, openpyxl, nltk
Role : Requirement Analysis and writing, Design, Development, ad-hoc testing using several random inputs.
Environment : Linux-mint 18.2
Details : Implemented search engine capable of

- Suggesting nearest word if misspelled, and
- Retrieving from the corpus in very short time.

Project #3 : MNIST digit recognition by CNN
Technologies : Python3, keras, tensorflow
Environment : Linux-mint 18.2
Details : Downloaded the mnist data set and coded and implemented to recognize the individual digit images.
Out of 10000 images, I took 7000 images for training using CNN. I tested my trained model on the rest 3000 images and it gave 98.2% accuracy.

Project #4 : Image Compression by ConvLSTM
Technologies : Python3, keras, tensorflow
Environment : Linux-mint 18.2
Details : Implemented the paper, available at
a)https://github.com/1zb/pytorch-image-comp-rnn, and
b) https://github.com/tensorflow/models/tree/master/research
and successfully trained and tested the model described therein with my face data.

EXTRA CURRICULAM ACTIVITIES:

- Political debates.
- Taking ownership of cultural programmes.
- Voluntarily interaction with needy people during my free time to help them.