Prashant Singh
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LinkedIn

Education

- National Institute of Technology, Durgapur

    - M.Tech. in Operations Research, CGPA 7.95, (2016 - 2018)
    - Graduate Courses : Programming Language and Data Structure, Automata and Algorithms, Discrete Mathematics, Operations research, Probability and Statistics, Optimization Techniques, Numerical Methods

- National Institute of Technology, Durgapur

    - B.Tech. in Biotechnology with open electives from Computer Science, CGPA 7.0, (2007 - 2011)
    - Undergraduate Courses : Data Structures, Computer Networks, Operating Systems, Communication Network, Database Management Systems

Employment(s)

- Software Developer, VHR Solutions (Feb 2020 - Sep 2020)

    - Worked in payments team of Infosys's Finacle product . As a team member I was involved in implementing the code for handling the Bank Identifier Code . Written a Java JDBC code for exporting table rows from Oracle database . The exported rows are in form of insert query and are suitable for Postgres database . Have written a bash script for execution of multiple sql files on remote postgres database .

- As a Teaching Assistant, taught following courses during M.Tech. at NIT Durgapur (July 2017 - May 2018)

    - Numerical Analysis Lab using C programming, May 2018 .
    - Operations Research Lab using Matlab, Dec 2017 .

- System Engineer, TCS(Tata Consultancy Services, Chennai) (July 2011 - July 2013)

    - Managed integration servers installed on Redhat systems using linux commands and script.
    - Created web services to migrate data from legacy system IBM DB2 database to latest oracle database using Oracle Middleware Technology . The data of DB2 was exposed in XML and the web services were consuming these data and inserting it into Oracle database .

Projects

- **Question AnswerAI** , Oct 2020

  Created an AI to answer questions . Input was few wikipedia pages as text files . Used TF-IDF technique to give most relevant answer to the given user query . project link.

- **Pizza Orders Website** , Jan 2020

  Created a web application for handling pizza restaurant's online orders , using Django web framework : project link , HarvardX: CS50's Web Programming with Python and JavaScript

- **Flack, Chatting Web App** , Jan 2020

  Created a chatting application named Flack , similar to Slack , using python, flask and socketIO . User can register, create new channel , delete their post, check others post in real time using socketIO . : project link , HarvardX: CS50's Web Programming with Python and JavaScript,

- **Book Review Website** , Dec 2019

  Created a book review website, lookthebook . Technology used are Html, Javascript, Python, Flask, Postgresql database : project link , HarvardX: CS50's Web Programming with Python and JavaScript

- M.Tech project: Recognition of printed Odia(A language spoken in India) character using neural network , June 2018.

    - recognized 62 basic Odia characters (10 numerical, 12 vowels, 40 consonants) in a given image and convert them to computer editable text using deep neural network. Got an accuracy of 97.75
    - Input layers = 784, hidden layers = 300, output layers = 62
    - Technology: Python, OpenCV

- **Game Development**
  - Created web based game 2048 and also in command line form , in C++, code .
  - "Game of Fifteen" in C, code
  - Breakout in C, code

Additional Courses

- Deep Learning Specialization, Coursera, Jan 2019
- CS50's Introduction to Computer Science, HarvardX, July 2019
- Computational Thinking using Python, MITx, Aug, 2018
- Machine Learning Stanford University, Coursera, November 2017, Grade Achieved: 97.6%
- Algorithms: Design and Analysis, Part 1, Coursera, Grade Achieved: 84.5%, September 2015

Skills and Technologies

- Web Framework : Django, Flask, JavaEE
- Algorithms , Data Structure, Object Oriented Design, Responsive Web Design
- Programming languages: C++, Python, Java , C , Matlab
- Frontend : Ajax, Javascript, Html, CSS
- Backend : Postgres, Oracle, Sqlite

Achievements

- Certificate of excellence in Competitive Programming course on Coding Ninjas
- All India Rank 1593 among 1,08,495 in GATE-2016 in Computer Science .
- Cummins Inc.'s appreciation certificate certificate .