SUPAN KAUR
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OBJECTIVE
Seeking a co-op or an internship position in Bioinformatics/Data Science domain.

ACADEMIC BACKGROUND

Master of Science in Bioinformatics(GPA 3.83)   Northeastern University   Exp August 2017
Coursework: Molecular Biology, Bioinformatics
Computational Methods 1 & 2, Bioinformatics
Programming, Data collecting, Storing and
Retrieving, Ethics in Biological Research,
Bioinformatics Seminar.
Fall semester 2016: Statistics, Web development(MEAN stack)

Bachelor of Science in Dental Surgery(GPA 3.87)   Kurukshetra University   November 2009

KEY SKILLS
PERL
- Analyze, merge and convert a variety of data formats.
- Use of regular expressions to find patterns like hydrophobic motifs, restriction cut sites etc. in sequence files.
- Find and isolate CRISPRs for more in depth analysis.
- Object oriented Modern Perl.
- Access databases and develop dynamic webpages using Perl.

PYTHON
- Scripts to parse BLAST line.
- Use of regular expressions and object oriented version to parse GO terms and swissProt file.
- Advanced python scripts using python map function and dictionary comprehension.

DATA SCIENCE/R
- Data collection from online sources using R.
- Cleaning and transforming data into effective storage structures in R.
- Use of SQL to store and retrieve data from relational databases.
- No SQL databases to store and retrieve unstructured data.
- Worked with different datasets and data objects in R.
- Apply knowledge from case studies to select, plan and implement information repositories.

OPERATING SYSTEMS
Linux, Windows, Microsoft Office

BIOINFORMATICS TOOLS
- Multiple sequence alignments using NGS tools like ClustalW, MUSCLE, MAFFT, MuMmer, TRINITY, Mauve, Bowtie2, BLAST, FASTA and Samtools.
- Databases stored within NCBI and EMBL and query using ENTREZ queries.
- Dendroscope for phylogenetic relationships and position specific scoring matrix(PSSM).
- Dayhoff and BLOSUM scoring matrices.
- Pfam, Prosite and InterProScan protein databases.

EMPLOYMENT EXPERIENCE
Precious Dental Care, Fremont, CA 94538   July 2013 till July 2015
Job Title: Dental assistant and Receptionist

• Provide direct patient care in all dental specialities including orthodontics, preventive and pediatric dentistry as dental assistant, responsible for scheduling of patients and recall system.
• Submission of treatment plans for predetermination of benefits, confirm the insurance coverage and breakdown benefit for patients with dental insurance, prepare claim forms and statements, follow-up insurance claims and manage patients financial accounts.

Deepak Dental Clinic, Kurukshetra, India   December 2009 till November 2010
Job Title: Dental Associate
Provide professional dental services to patients, diagnose dental conditions, interpretation of x-rays images and diagnostic tests, deal with routine appointments and check-ups, treatment plans to maintain or restore the oral health of patients, perform treatments such as fillings, extractions and dental hygiene services, community dental education.

REFERENCES

1.Dr. Steve Vollmer   Northeastern University   s.vollmer@neu.edu
   Director of Bioinformatics

2. Vanecia Harrison   Northeastern University   v.harrison@northeastern.edu
   CO-op Advisor

3.Dr. Vaishali Bhavsar   Precious Dental Care   precious1895@gmail.com

4.Dr. I.K. Pandit   Kurukshetra University   davdental@rediffmail.com
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