ubc science co-op

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NAFIS ABRAR

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EDUCATION

4th year

B.Sc. in Computer Science — Vancouver
at University of British Columbia
Focus on Machine Learning and Software Engineering.
Notable courses: Intelligent Systems/AI, Machine Learning, Advanced Database, Internet Computing, Software Engineering, Statistical Learning.

WORK

Jan 2018 - Present

SCIENTIFIC SOFTWARE DEVELOPER
at BC Cancer Research Centre (Shah Lab)

- Improved the BCCRC software infrastructure to support research tasks by implementing new functionalities using Django.
- Performed data analysis and implemented machine learning algorithms for cancer cell classification problems using Python libraries.
- Maintained, tested and optimized existing data analysis pipe-lines.
- Modified and maintained existing databases and web front end.

May 2017 - Sept 2017

IT TEAM MEMBER (FULL STACK WEB-DEVELOPER)
at UBC EOSC (Earth and Ocean Sciences)

- Contributed to the backend of the UBC EOSC website by creating models, views and forms using Django.
- Exported CSV files from older Drupal7 UBC website and wrote Python scripts that automatically created objects in the new Django website using the CSV data. This resulted in loading 1000+ records in the new website.

Sept 2016- Present

TECHNICAL SUPPORT STAFF
at UBC Sauder IT

- Providing technical support to instructors in classrooms, meeting rooms, and computer labs.
- Troubleshooting AV and computer technical problems.
- Validated and edited inventory data.
- Instructing users on the operation of computer and AV equipments.

RELEVANT PROJECTS

October-November 2017
Personal Project

MACHINE LEARNING/DATA SCIENCE
Built in: Pycharm Language: Python Frameworks:TensorFlow, Scikit Learn

- Implemented an image classifier using deep neural network using TensorFlow. This resulted in prediction with an accuracy of around 80%.
- Built a sentiment analyser that extracts data from Twitter given a topic. The data from the Twitter API is then processed to give a result of how people feel about the user provided topic.

August 2017
Personal Project

RHOADS- A BLOG WEBSITE
Built in: Pycharm Languages: Python(Django Framework), HTML, CSS, JS

- Rhoads is an interactive blog website that allows users to signup and post their blogs. The data is stored in SQLite database. The website uses a token system to verify email during user signup. Users can also view other users blogs as guests.
- The front-end uses HTML, CSS (Bootstrap) and JavaScript. A website preview is available on my Github account.

Programming Languages

- Java — Proficient (2 years)
  Projects : Restaurant App, Advanced Calculator, DNS Server, FTP Client, Gym Database using JDBC
- C — Basic (8 months)
  Projects : FTP Server , x86 implementation
- Python — Competent (1 year)
  Projects : Machine learning algorithms, Django-UBC EOSC website, Rhoads
- SQL — Competent (1 year)
  Projects : GYM Database, UBC EOSC website
- Unix/bash — Competent(2 years)

Web development and Design

- HTML and CSS* - Competent(4 months)
  Projects : UBC Eosc website, Rhoads website
- TypeScript/node.js* - Basic (2 months)
  Projects : Insight UBC
- Django - Proficient (4 months)
  Projects : UBC EOSC website , Rhoads website

Machine Learning/Data Science

- Python - scikit-learn/Tensor Flow
  Projects : Image classifier, Chatbot, and Stock Price Predictor
- Keras/Theano*

*Currently Learning