

tousif chowdhury

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+ employment

McKinsey and Company New York, NY
Software Engineering Intern
May 2017 to Current

- Developing Restful API endpoints using Node.js and Express.js for evaluation system to make evaluations accessible and easier for consultants.
- Unit testing routes, controllers and middle-ware using Mocha.
- Working in Agile environment using tools like Jira for ticket management.

Research Assistant Rochester, NY
Full Stack Software Engineer
Feb 2017 to May 2017

- Developed respondent-driven sampling application using JQuery, Node, Loopback and MongoDB, resulting in a system that can get an accurate sample of the hard of hearing and deaf community.
- Built the entire stack of the system using Node.js, Loopback, and implementing invitation capability to allow for a system that can keep track of users who have completed the survey, and send them emails automatically to invite more users.
- Responsible for deploying and maintaining application onto a Red Hat Enterprise Linux environment and setting up NGINX for a Reverse Proxy Server.

Johnson and Johnson Raritan, NJ
Software Engineering Co-op
Jan 2016 to Aug 2016

- Developed the backend API using Symfony 3 and PHP for a medical application making patient and doctor interactions easier.
- Created a library that parses and converts health database API into usable PHP objects for the application layer.
- Unit tested every feature including routes, controller, services, repositories to increase code coverage from 5% to 40%.
- Worked with Jira, Stash, Confluence, Apiary, and Git for version control, to work in an agile environment with daily stand-ups.

+ projects

Movie Predictor (Python, Pandas, Numpy, Scikit-Learn, Matplotlib) Apr 2017

- Engineered a system to predict a movie's rating based on attributes from metadata found online.
- Uses Pandas to clean and remove unwanted attributes. Use central tendency to fill in missing values. Use Numpy to create matrixes of attributes.
- Utilizes Matplotlib to visualize data and find correlations within the data.
- Applies Scikit-Learn to come up with predictive models using machine learning algorithms like Logistic Regression, Support Vector Machines and Decision Trees to classify the data.
- Uses cross section validation to come up with training data and testing data to test the accuracy of the data.
- Create receiver operator curves (ROC) to analyze False Positive Rate vs True Positive Rates for each model to find best one.
- Project can be found at <https://github.com/tousif101/MoviePredictor/>

InstaAnalytics (Python, Flask, Scikit-Learn, Pandas, Numpy) Oct 2016

- Developed a web application that will predict how many likes your next Instagram post will get within 24 hours for a hackathon.
- Uses Instagram API to gather metadata and scikit-learn to run machine learning algorithms.
- Personally focused on Python and Scikit-Learn. Created predictive models using machine learning algorithms like linear regression.
- Develop some backend code to use Instagram API to get user metadata and feed picture into the Clarifai API to gain tags to use for more predictive models.
- Project can be found at <https://devpost.com/software/instaanalytics>

+ summary

Software engineer and data mining enthusiast seeking an internship or co-op opportunity to get hands on experience in the field. Check out my awesome data mining projects at my github linked on this resume (tousif101).
Availability: September (2017) – December (2017)
Relevant Courses: Principles of Data Mining, Analysis of Algorithms, Principles of Database Management, Concepts of Parallel and Distributed Systems

+ education

Rochester Institute of Technology
Bachelor of Science Computer Science 2018
Current GPA: 3.33

+ skills

PROGRAMMING SKILLS	DEVELOPER TOOLS
Python	Git
Java	Jira
PHP	Confluence
SQL	Apiary
NoSQL	Swagger
Numpy	Symfony
Scikit-Learn	Loopback
	Pandas

+ awards

The Young Bengal Education Foundation Jul 2014
· The Young Bengal Scholarship

- Selected to receive college scholarship for excelling in academic achievement and leadership skills.

RIT Deans List May 2015

- Awarded the Deans List award for being an exceptional student the entire year.

+ activities

RIT Muslim Student Association Aug 2015 to Current
· Marketing Director

- Design and implement new marketing promotions for MSA events.
- Collaborate and brainstorm with the team to expand, promote and strengthen the club.
- Execute successful social media marketing campaigns.