ROHAN PATEL

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SUMMARY

- Experience with Python and Java, with a strong understanding of CS fundamentals and object-oriented design.
- Experience using machine learning tools and libraries like NumPy, Pandas, Scikit-learn and WEKA.
- Strong foundation in writing RESTful web applications using Node.js and Express.

EDUCATION

Master of Science, Computer Science, San Francisco State University **May 2019 (expected)**

Bachelor of Technology, Information Technology, Manipal Institute of Technology **July 2012 – July 2016**

COURSES

Analysis of Algorithms, Software Engineering, Internet Application Design and Development , Machine Learning, Data Mining, Database Management Systems, Operating Systems

TECHNICAL SKILLS

Languages: Python, Java, SQL, Javascript, HTML, CSS, Apex

Libraries/Frameworks: Node.js, Express, NumPy, Pandas, Matplotlib, Scikit-learn, NLTK

Others: PostgreSQL, MySQL, ElasticSearch, Weka, Tableau, AWS, UNIX/Linux, Git, Jira

PROJECTS

PARSE : Crowd Sourced Environmental Reporting Website | **GitHub** | **Website URL** | Jan 2018 – May 2018

- Designed and developed a WWW app using Node.js, Express (server side), Bootstrap (front end), and MySQL.
- Played the role of the tech lead in a 7-member student team.
- Implemented core site functionalities like search, integration of google maps and places APIs, posting of content on website, image upload features, etc. Also oversaw deployment of app to Heroku.

HTTP Web Server using Java | **GitHub** | August 2018 – September 2018

- Developed a multi-threaded web server capable of a subset of the HyperText Transfer Protocol (HTTP) using Java.
- Server can parse HTTP requests (like GET, PUT, POST and DELETE), authenticate them, load mime types, send appropriate responses, and run CGI scripts.

SMS Spam Detection using Machine Learning and NLP | **GitHub** | Feb 2018 – May 2018

- Built a spam filter using ML and NLP techniques that could classify text messages as spam or non-spam.
- Main steps involved feature engineering, text processing, text classification, parameter tuning, and cross-validation.
- Final classifiers gave an accuracy of 0.98 on the UCI SMS dataset and 0.888 on the DIT SMS Spam dataset.
- Project was implemented in Python and Python libraries like pandas, scikit-learn and nltk.

The Movie Recommender | **GitHub** | Oct 2017 – December 2017

- Implemented content-based and collaborative filtering recommendation algorithms using Python.
- Recommendation algorithms were implemented on a movie dataset that used an ensemble of the MovieLens and TMDB datasets and contained over 45000 movies and around 270,000 user ratings.

EXPERIENCE

Software Developer & Data Analyst **September 2018 – Present**
Metro College Success Program – San Francisco, CA

- Data preparation, analysis, and visualization with Python.
- Salesforce development of Apex classes, triggers and unit tests.
- Job is part of a collaborative project between the CS dept. and Metro College Success Program at SF State.

Software Engineering Intern, DevOps **June 2018 – August 2018**
Zumigo Inc. – San Jose, CA

- Worked primarily on Zabbix (open source monitoring tool).
- Wrote various Python and Bash scripts to send email alerts using Zabbix, execute remote commands and create monitoring solutions. In turn, gave visibility to IT into various services like MongoDB and our Nginx servers.
- Reduced volume of noisy alerts on company's old monitoring system by migrating system to latest versions.
- Set up a centralized logger system using ELK – ElasticSearch, Logstash, Kibana – to help analyze server logs better.