ROHAN PATEL

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SUMMARY

- Experience with Python along with a strong understanding of CS fundamentals and object-oriented design.
- Experience using machine learning tools and libraries like NumPy, Pandas, Scikit-learn, MATLAB 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, Machine Learning, Big Data Analytics, Data Mining, Database Management Systems, Internet Application Design and Development

TECHNICAL SKILLS

Languages:	Python, C++, Java, SQL, Javascript, HTML, CSS
Libraries/Frameworks:	Node.js, Express, NumPy, Pandas, Matplotlib, Scikit-learn, NLTK
Others:	Jupyter, Weka, Tableau, AWS, Matlab, UNIX/Linux, Git, Jira, Zabbix, ELK Stack

PROJECTS

WWW Site for Reporting and Managing Environmental Issues | **GitHub** | **Website URL** | Jan 2018 – May 2018
- Built a WWW app using Node.js, Express (server side), Bootstrap (front end), and MySQL.
- Played the role of the backend lead in a 7-member student team.
- Implemented core functionalities like search, integrating google maps api, posting of content on the website including uploading images, setting up filesystem for the images on cloudinary, deploying app to Heroku, etc.

SMS Spam Detection using Machine Learning and NLP | **GitHub** | Python | Feb 2018 – May 2018
- Built a spam filter using ML and NLP techniques that could classify text messages as spam or non-spam (ham).
- Main steps involved data analysis and feature engineering, text pre-processing, text classification, parameter tuning, and model evaluation using cross validation and learning curves.
- Final classifiers gave an accuracy of 0.98 on the UCI SMS dataset and 0.888 on the DIT SMS Spam dataset.

Image Classification using Discriminant Eigenfeatures | **GitHub** | Matlab | Oct 2017 – Nov 2017
- Built an image classifier that could classify facial images as male or female.
- Principal Component Analysis (PCA) and Linear Discriminant Analysis (LDA) were performed to train the model.
- The final model had a model accuracy of 93%.

The Movie Recommender | **GitHub** | Python | Oct 2017 – December 2017
- In this project I built a recommendation engine for giving personalized movie recommendations.
- The dataset used was an ensemble of the MovieLens and TMDB datasets that contained over 45000 movies.
- Two types of engines were built: A Content Based Recommender and A Collaborative Filtering Recommender.

EXPERIENCE

Software Engineering Intern, DevOps **June 2018 – Present**
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 to give visibility into various services like MongoDB and our Nginx servers.
- Worked with ELK stack (ElasticSearch, Logstash, Kibana) and set up a centralized log aggregator for the company.

Software Engineering Intern **Jan 2017 – June 2017**
Learn To Drill – Mumbai, India
- Worked on a 5-member engineering team. Worked on developing, maintaining and enhancing android apps
- Secondary work included QA and spec writing, and I wrote the main design spec for one of their android apps.