ROHAN MANOJ THAKKAR

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SKILLS

- **Proficient:** Python (2.7/3.x), SQL (Oracle/Impala), Tableau, Bash (UNIX), Jupyter notebook
- **Intermediate:** Java, HTML, D3.js, Swift, Firebase, MongoDB, Native Mobile App Dev (Android/iOS)
- **Beginner:** AWS (S3/Kafka/Titan/Cassandra/Spark), CSS, XML, Groovy, R

EXPERIENCE

VMWARE, Palo Alto, CA   *Member of Technical Staff 2 (Jun '17 - Jul '19)* → *MTS 3 (Jul '19 - Present)*

- Led several efforts in data science & analytics to help improve engineering productivity; some examples -
  - Helped teams identify flaky CAT Smoke tests for a more reliable visibility into test code quality
  - Formulated the cost model of VM resources to help upper management detect patterns across high usages
  - Built a Machine Learning (ML) system to predict resolution time of bugs & recommend strategies
  - Devised a resource allocation system encompassing all teams to minimize overall quota violations
  - Built multiple dashboards with automated data pipelines from different sources to track and present KPIs
  - **Technologies**: Python *(pandas, numpy, sklearn, Tensorflow, Keras),* SQL, NoSQL, REST APIs, Tableau

- Coded features for CI/CD of core projects (vSphere SDDC, VMware Cloud on AWS, vSphere delivery model) -
  - Fetching all deliverables from build system and upload in parallel to S3 buckets upon build execution
  - Creating Jira bugs upon failed runs and navigate through workflow as per code commits
  - Extending leases of VMs as and when required during execution to ensure smooth processing
  - Automatically running pre and post checks to solidify the build validation process
  - **Technologies:** Jenkins**,** Python, Groovy, AWS S3, REST APIs

UW MEDICINE*,* Seattle, WA   *Big Data Programmer (Jan - May '17)*

- Meshing large SQL health data from remote Linux servers & performing required analysis *(ssh, Python)*
- Mapping location data to GPS using Google Maps API & creating interactive visualizations *(D3.js, HTML)*

CYANOGEN*,* Seattle, WA   *Software Engineering Intern (Jun - Dec '16)*

- **Data Cloud Services team:** Co-developed 2 cloud-based ML services (App Recommender, NewsCard ranking) -
  - Integrate with AWS-based NoSQL data pipelines to scrape historical user data *(Kafka, S3, TitanDB)*
  - Utilize ML to recommend new mobile apps and news articles based on usage data *(sklearn, PySpark)*
- **Dev Automation team:** Developed a full-stack software that integrated with Lava automation server and -
  - Scrapes log data using server APIs, parses for computations that go to on a MongoDB server *(Python)*
  - Provides an on-demand online interactive dashboard with multiple filters *(D3.js, HTML, CSS)*

EDUCATION

M.S., University of Washington (UW), Seattle, WA   *Information Management (Sep '15 - Jun '17)*

- **Data Science**: Foundational Statistics, ML & Data Scaling
- **Business Intelligence:** Data Warehousing, Analytics & Reporting
- **Native Mobile Applications Development:** Android app development, iOS app development

B. Eng., University of Mumbai, India   *Computer Engineering (Aug '11 - May '15)*

COURSES / CERTIFICATIONS

INTRODUCTION TO SELF-DRIVING CARS (Nanodegree), Udacity   *Jun '19*

NEURAL NETWORKS AND DEEP LEARNING (Audit), Coursera   *Jul '18*

IMPROVING DEEP NEURAL NETWORKS (Audit)**,** Coursera   *Oct '18*

PROJECTS

TICKET GENIE (Capstone with iLink Systems, Redmond, WA)   *Group of 2 (May '17)*

- Coded a ML-based classifier for real-time categorization of support tickets *(HTTP, CSS, Python: sklearn, Flask)*

FREEFOOD - https://github.com/27rohan/Free-Food   *Group of 4 (Dec '16)*

- Programmed the real-time JSON data flow (read & write*)* in Swift 3 between the iOS app and Firebase server

PET PROJECTS IN DATA SCIENCE - http://27rohan.github.io   *Solo* (*Dec '15 - May '16)*