

# ROHAN MANOJ THAKKAR

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[27rohan.github.io/Portfolio](https://27rohan.github.io/Portfolio)

[github.com/27rohan](https://github.com/27rohan)

## SKILLS

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

## EXPERIENCE

VMWARE, Palo Alto, CA

*Data Science Engineer, vSphere (FT): Jun '17 - Present*

- Led several efforts to utilize data science & analytics to 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 (PT): 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, Data Cloud Services (FT): Jun - Dec '16*

- **Data Cloud team:** Co-developed 2 cloud-based ML services (App Recommender, NewsCard ranking) that -
  - Perform machine learning to personalize ads and articles based on usage data (*sklearn, PySpark*)
  - Integrate with AWS-based NoSQL data pipeline to scrape historical user data (*Kafka, S3, TitanDB*)
- **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*

## PROJECTS

TICKET GENIE (Capstone with iLink Systems, Redmond, WA)

*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>

*3 - 13 Dec '16*

- Programmed the real-time JSON data flow (read & write) in Swift 3 between the iOS app and Firebase server
- Using XCode and Storyboard (CocoaTouch framework), created ViewControllers for settings and posting event

CHASE IT - [https://github.com/27rohan/Chase\\_it](https://github.com/27rohan/Chase_it)

*Apr - May '16*

- Built an addictive native Android game with Android Studio using Java on back-end and XML on front-end
- Features: Multiplayer mode (Wi-Fi direct), touch screen and motion sensor recognition, local leaderboard

PET PROJECTS IN DATA SCIENCE - <http://27rohan.github.io>

*Dec '15 - May '16*

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