

# ROHAN MANOJ THAKKAR

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

## EDUCATION

**M.S.,** University of Washington (UW), Seattle, WA

**Information Management: Sep '15 - Jun' 17**

- **Data Science:** Foundational Statistics, Machine Learning (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**

## SKILLS

- **Languages:** Python, SQL, Java, R, Bash (UNIX), D3.js, XML, HTML, CSS
- **Tools:** [MongoDB, Titan, S3, Kafka, Firebase, Cassandra] [Oracle, SQL Server, MySQL] [Tableau, Visio]
- **Frameworks and IDEs:** [AWS, Jupyter notebook, PySpark, R Studio] [XCode, Android Studio]

## EXPERIENCE

**VMWARE,** Palo Alto, CA

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

- **Data Science & Analytics** (**Technologies:** pandas, numpy, sklearn, Keras, SQL, NoSQL, REST APIs, Tableau)
  - Helping teams identify flaky CAT Smoke tests for a more reliable visibility into product code quality
  - Formulating the cost model of VM resources to help upper management detect patterns across high usages
  - Built a ML system to predict resolution time of bugs and recommend customized strategies to teams
  - 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 productivity KPIs
  - Analyzed support-requests data w.r.t. bugs to identify ways of lowering resolution time
  - Redesigned the ETL of most of the team's reporting and data warehousing for optimized data movement
- **Software Engineering** (**Technologies:** Jenkins, boto, AWS S3, Jira REST APIs)
  - Added features to projects (core SDDC, VMware Cloud on AWS, vSphere new delivery model) like -
    - Fetch all deliverables in build system and upload in parallel to S3 buckets upon build execution
    - Create Jira bugs upon failed runs and navigate through workflow as per code commits
    - Extend the leases of VMs as and when required during execution to ensure smooth processing

**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*)

## KEY 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**