

ROHAN MANOJ THAKKAR

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27rohan.github.io/Portfolio

github.com/27rohan

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 product 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*)

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]

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

SIDE 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

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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