

ROHAN MANOJ THAKKAR

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27rohan.github.io/Portfolio

github.com/27rohan

EXPERIENCE

VMware, Palo Alto, CA

Data Science Engineer, vSphere: 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
 - Coded features for CI/CD of projects like vSphere SDDC, VMware Cloud on AWS, vSphere delivery model -
 - ETL of Jenkins pipeline failures into Impala SQL DB and build deliverables to AWS S3 buckets in parallel
 - Creation of Jira bugs for failed runs with information and navigate the ticket through workflow
 - Adding additional build validation checks and extending leases of VMs as and when required
- Technologies: Python (*pandas, numpy, sklearn, Tensorflow, Keras*), SQL, NoSQL, REST APIs, Tableau
- Technologies: Jenkins, Python, Groovy, AWS S3, REST APIs

Cyanogen, Seattle, WA

Software Engineering Intern: 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)
- **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)

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

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*)

Free Food - <https://github.com/27rohan/Free-Food>

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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