

# ROHAN MANOJ THAKKAR

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## EDUCATION

**UNIVERSITY OF WASHINGTON**, Information School, Seattle, WA *Anticipated: Jun 2017*

- Master of Science in Information Management - Data Science (GPA - 3.66/4)
- **Coursework:** [Data Scaling & Applications, Machine Learning & Econometrics, Data Analytics], [iOS App Dev, Android App Dev, Information Architecture], [Business Intelligence Systems, Analytical Methods, Strategic BI]

**UNIVERSITY OF MUMBAI**, K J Somaiya College of Engineering, Mumbai, India *Jun 2015*

- Bachelor of Engineering in Computer Engineering with First Class Honors (GPA - 3.78/4)
- **Coursework:** Object Oriented Software Engineering, Data Structures & Files, Web Engineering, Data Warehousing & Mining, Data Management System, Distributed Systems, Computer Networks, Artificial Intelligence, Operating Systems

## SKILLS

- **Languages:** [Python, Java, SQL, R, Bash (UNIX), Swift 3, Groovy, JavaScript], [D3.js, XML, HTML, CSS3, PHP]
- **Tools:** [MongoDB, SQL Server, MySQL, Cassandra, Titan], [Tableau, Visio, Visual Studio], [AWS, Gradle, Jira, Git]
- **Frameworks and IDEs:** Jupyter (IPython), R Studio, XCode, Android Studio, IntelliJ, Spark, Netbeans, Eclipse

## WORK EXPERIENCE

**CYANOGEN INC.**, Seattle, WA *Jun 2016 - Present*

*Software Engineering Intern (Artificial Intelligence Research Team: Data Cloud Services) - Full Time*

- As a founding member of the AI Research team for the upcoming modular OS product, my work encompasses -
  - Creating a service for data scraping, cleaning & manipulation for an AWS instance of knowledge graph
  - Coding the machine-learning for Feeds ranking & Recommendation engine (The latter being my brain-child)
  - Algorithms experimenting: Gradient Boosting Tree, Random Forest, Collaborative Filtering
- Solely programmed and pitched a full-stack software to be integrated with the automation server, that -
  - In Python, accesses data using REST APIs, filters it and reconfigures its structure for a NoSQL back-end server
  - Generates online interactive dashboard with multiple filters in D3.js on client-browser for pattern-recognition

**LARSEN & TOUBRO TECHNOLOGY SERVICES LIMITED**, Navi Mumbai, India *Jun 2014 - Aug 2014*

*Web development Intern - Full Time*

- Refactored the JavaScript code, deducting its size by almost 45% and redesigned the GUI for user-friendliness

**RAJ INFORMATION SYSTEMS PRIVATE LIMITED**, Mumbai, India *Aug 2013 - Nov 2013, Dec 2012 - Mar 2013*

*Software Development Intern - Part Time*

- Delivered an effective SQL querying for managing large databases at the client-side using SQL and TeamViewer 7

## PROJECTS

**(DUBHACKS 2016) LEARNING FROM TWITTER** ([https://github.com/27rohan/Twitter\\_Learn](https://github.com/27rohan/Twitter_Learn)) *15 - 16 Oct 2016*

- Visual recommendation system that, for a valid Twitter handle, recommends similar users and top words to tweet about
- Technologies: Twitter API, Microsoft Cognitive API, Firebase, Python, D3.js, HTML, CSS, AWS

**CHASE IT!** ([https://github.com/27rohan/Chase\\_it](https://github.com/27rohan/Chase_it)) *Apr - May 2016*

- 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 2015 - May 2016*

- Achieved store-sales forecasting (ranked in top 10%) for 45 Walmart stores as part of a Kaggle competition
- Performed web scraping on the course catalog data of IIT in CSV format using Beautiful Soup & pushed as SQL to AWS
- Implemented modern techniques in machine-learning and econometrics using the IPython notebook environment
  - Algorithms: Regression (Linear & Logistic), kNN, k-fold CV, PCA, Naïve Bayes, Decision Trees
  - Datasets: Rotten Tomatoes ratings, Boston housing prices, Progres program in Mexico (1999-2000)

**END-TO-END BUSINESS INTELLIGENCE SYSTEM** (<https://github.com/27rohan/DataMart>) *Jan - Mar 2016*

- Created ETL packages for a SQL data warehouse using MS-BI Suite and analyzed sales figures to increase profit by 5%

**(DUBHACKS 2015) COLORME** (<https://github.com/27rohan/ColorMe>) *17 - 18 Oct 2015*

- Co-developed a native Android app that allows users to capture an image and displays the dominant color in that image

**(UNDERGRAD CAPSTONE) PAGE INTEREST ESTIMATION** (<https://github.com/27rohan/SpiderMonkey>) *Aug 2014 - May 2015*

- Expedited web-crawling by 25%, worked on the back-end SQL database and PHP scripts connecting it to front-end