

# ROHAN MANOJ THAKKAR

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## EDUCATION

**UNIVERSITY OF WASHINGTON**, Information School, Seattle, WA (*Student ID: 1527713*) *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, D3.js, Bash (UNIX), XML, HTML, CSS3, PHP, JavaScript, Groovy, Swift 3
- **Tools:** AWS, MongoDB, SQL Server, MySQL, Git, Gerrit, Visio, Visual Studio, Tableau, Cassandra, Titan, Gradle, Jira
- **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 (Data Cloud Services) - Full Time*

- Advancing the data-cloud team in their first-ever Artificial Intelligence initiative for the upcoming modular OS product -
  - AWS-S3 data scraping, cleaning & manipulation for configuring a knowledge graph database instance on AWS
  - Coding the machine-learning for Feeds ranking & Recommendation engine (The latter being my brain-child)
  - Algorithms experimenting: Gradient Boosting, Random Forest, Collaborative Filtering: Naïve Bayes & kNN
- 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*

- Implemented the GUI using HTML, CSS3 and JavaScript (JS) with focus on user-friendliness and ease of navigation
- Managed JS data caching and optimized the website by refactoring the JS code, deducting its size by almost 45%

**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

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

- Built an addictive 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 customized ETL packages and built a data warehouse to analyze sales figures and increase profitability
- Came up with a business strategy of increasing the cost of the one product predicted to be most popular by \$1
- Tools used: Microsoft Business Intelligence Suite (SQL Server, SSIS, SSAS), Visio, Visual Studio, Tableau

**COLORME - DUBHACKS SEATTLE** (<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

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

- Planned the agile execution of the LAMP-stack software and discussed its required features with the project committee
- Expedited web-crawling by almost 25% and worked on the PHP scripts that connect the back-end and front-end servers