

Education

Masters in Information Systems Management, Heinz College, Carnegie Mellon University

May 2017

Relevant coursework: Data Structures and Algorithms, Distributed Systems, Machine Learning (ML), Practical Data Science, Research in Data Science, Mobile App Development, Database Management.

Bachelors in Information Technology, SRM University, Chennai

Apr 2013

Professional Experience

SingTel DataSpark Analytics, Singapore

Data Engineering Intern

Summer 2016

[Spring, React.Js, JQuery, Apache Spark]

- Created an interactive Apache Spark Job Configurator Web Application from scratch using React.Js and Spring Data framework in an agile environment to auto-write ETL spark job configuration files.
- Reduced job failures by 40%. Exported the tool as a product of DataSpark to its clients with documentation and tutorials.

Tata Consultancy Services, Chennai, India

Software Engineer

Jun 2013 – May 2015

[Apache Camel, Spring, Hibernate]

- Oversaw project estimation, use-case design, software development, performance testing and rollout activities of a critical data integration project for a US based retailer.
- Optimized data transformations to facilitate large scale data transfer from client systems to enterprise cloud. Data movement efficiency was 99% which reduced data reconciliation process for the client.
- Actively involved in developing and documenting proof-of-concepts with data transformation and processing frameworks like Apache Camel which was later utilized across the client projects as boilerplates.
- Received Technical excellence award for successfully completing three of the eight major releases in the project.

Academic Projects

Demand Forecasting Singapore Taxi coverage based on Public Traffic Movements

Jan 2016-Present

[Python, JavaScript, NoSQL, Machine Learning]

- Modeling a Machine Learning Algorithm to maximize the supply patterns of taxicabs in Singapore to fill the gaps of city's deterministic public transport network.

Department of Justice's Crime Reduction Network- New Orleans Police Dept.(NOPD)

Jan 2016-Present

[Python, Tableau, Excel, Machine Learning]

- Working with Director of Analytics at NOPD to develop a data-driven model that improves department's response times for emergency calls and increase the level of community-oriented policing.

Airbnb price prediction tool

Sep 2016- Dec 2016

[Python, Machine Learning, NoSQL]

- Created a pure python tool which predicts the price of an Airbnb listing based on its features and locational significance.
- Performed hyper-parameter tuning with selected models and achieved accuracy score of 70% with limited dataset for the City of Pittsburgh.

Hilti Quiz-Train

Aug 2015- Dec 2015

[Android, Spring, MySQL]

- Created Hilti Quiz-Train, a native Android application for Hilti mobile challenge 2016, to ease the knowledge-transfer process among the tertiary sales employees of Hilti corporation.
- Completed second in the competition which saw a participation of over 120 teams around the world.

Skills

Scripting and querying Languages: Java, Python, C++, SQL, NoSQL, JavaScript, HTML.

Tools: Jupyter notebook, Eclipse, NetBeans, Android Studio, Amazon EC2, IBM Web sphere, Excel, Tableau.

Frameworks: Apache Hadoop, Spring, React.Js, Android, Apache Camel, Apache Spark, Hibernate, SOAP, REST.

Publication and Extracurricular Activities

- Automated Sentiment Analysis on Online News Feeds, Publisher- IRNET GRET International Journal ISSN 2320 –6632, Vol-1, Iss-2, 2013.
- MOOC:** Deep Learning by FastAI (2017 Jan-Present), Intro to Apache Spark by Edx (2016 July), Stanford CS231N (2017 Jan-Present)