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VIGNESH RAMESH

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EDUCATION

New York, NY — **New York University** — **Fall'15 - May'17**
M.S in Computer Science, GPA: 3.5
Coursework: *Analysis of Algorithms, Cloud Computing, Big Data, Distributed System, Database System, Machine Learning*

Chennai, India — **Anna University** — **Fall'09 - May'13**
B.E in Computer Science, GPA: 3.7

EXPERIENCE

Software Engineer — **Radiator Labs** — **Sep'15 - Aug'16**
- Developed an application to extract and analyze real-time information on energy consumption, and the statistical and graphical representation of that data.
- Designed and implemented API logic for operational services that automated the business workflow, increasing productivity.
- Calculated that the energy consumption was reduced by 35%, by measuring the efficiency of the radiators in terms of temperature distribution and heat loss through machine learning algorithms, based upon various plots and conditions.
- Technologies Used: *Python*, *AngularJS, Node.js, AWS- DynamoDB, SNS, Kafka, Scikit-learn.*

Analyst System Developer — **Verizon Communication** — **Sep'13 - Jul'15**
- Designed and developed Portlets, Security Model and Business Object Reporting for Portfolio Management in Clarity tool.
- Reduced load time and user clicks in VZWeb by redesigned user interface and application architecture.
- Used Factory Design Pattern to create a controller that consolidates data from three different portfolios into a single release tracking tool for One-Billing plan under Verizon Finance.
- Technologies Used: *Java Spring, SQL, Selenium, Clarity, JavaScript, Angular JS.*

Software Developer — **Daddyspocket.com** — **Nov'11 - Jan'13**
- Designed and developed the entire back-end architecture of an e-commerce application which was a one-stop marketplace for small-scale fashion designers and micro-manufacturers.
- Implemented deal notification add-ins, blog integration, and product categorization.
- Technologies Used: *Java, Spring, Hibernate, Python, MySQL, JavaScript, jQuery, Bootstrap.*

PROJECTS

Truthy – Bot or Not?
- Checks the activity of a Twitter account and gives it a score based on how likely the account is a Bot.
- Features: Random Forest, Adaboost, Logistics Regression, K-Nearest Neighbor, SVM, Multinomial Naïve Bayes.
- Tools and Technologies: Python- NumPy, pandas, Matplotlib, Scikit-learn.

Manhattan Nest
- A map visualization tool for housing recommendation in Manhattan.
- Used machine learning regression model to recommend best suited houses, extracting certain information from Yelp API.
- Analysis factors include cost of living, crime rate, nightlife, and proximity to subways, hospitals and restaurants.

Distributed Auction System
- Built a distributed system to conduct real-time auction for services (car rental, hotel rental etc.) and products.
- Implemented independent clusters for each type of service and for RESTful communication pattern between components.
- Tools and Technologies: Java, Apache Thrift, MongoDB, Zookeeper.

Stroll (crowdsourcing app)
- Facilitates common people to design authentic walking tours with crowdsourced reviews and photos, which can be used by anyone visiting the area.
- Filters popular routes in the neighborhood with unique features like user photos, ratings and comments.
- Tools and Technologies: AWS –Elastic Search, DynamoDB, SNS, SQS, S3, EMR, Kafka, Spark.

Predictive Analysis on Citi Bike Users
- Developed an analytics application to categorize users in order to facilitate targeted advertising, which helps in market strategy redesign and in driving revenue.
- Features: Google estimate analysis, bike rebalancing, boroughs distribution, effect of subways and seasons.
- Tools and Technologies: Python, Java, Hadoop, MapReduce, Hive, D3, JavaScript.

LANGUAGES AND TECHNOLOGIES

- Python, Java, JavaScript, AngularJS, Node.js, Hadoop, Spark, Kafka, D3.js, AWS, Jenkins, Spring, Hibernate, Django, Flask
- SQL, MySQL, NSQL, MongoDB, DynamoDB, PostgreSQL, Ubuntu, Linux.