# JOHN SMITH

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## SKILLS

**Programming Languages**
Python
R
Java
HTML, CSS, JavaScript

**Frameworks**
TensorFlow
Keras
Numpy
Pandas
OpenCV
NLTK
Scikit-learn
D3
React, MEAN

**Big Data and Distributed Systems**
SQL
Hadoop
AWS DynamoDB

## EDUCATION

**Arizona State University**, Tempe, AZ
Master of Computer Science, **GPA: 3.8**
*Aug 2016 - May 2018*
**Coursework:** Foundation of Algorithms, Data Visualization, Natural Language Processing, Perception in Robotics

**Stanford University**, Stanford, CA
Summer Session
*June 2017 - Aug 2017*
**Coursework:** Data Mining, Leading Trends in IT

**Jaypee University of Information Technology**, H.P., India
Bachelor of Technology, IT
*Aug 2011 - June 2015*

## WORK EXPERIENCE

**ASU Marketing Hub, Knowledge & Insights** - Software Engineer, Data
*Aug 2017 – May 2018*

- Managed a 3-month text analytics project focused on 200+ chat transcripts to conduct sentiment analysis. The results helped to prepare a better strategy for 20+ customer representatives.
- Utilized Rest API for extraction to make up for low data availability. Performed data cleansing in R and Python.
- Displayed insights and findings using visual tools like Tableau, Bokeh, and Shiny. Used t-SNE algorithm to reduce the dimensionality of the data, making it easy to display (topic modelling).
- Developing experimentation logic using data from 1000+ daily active members on the Sun Devil Rewards App to measure retention, which will be used to optimize the points associated with each activity.

**Infosys** - Software Engineering Intern
*Nov 2015 - Apr 2016*

- Developed full-stack web applications, coding at all levels from the database management (SQL) to the front-end (JSP), on the J2EE platform.
- Created database schemas and wrote efficient retrieval queries in MySQL for various business requirements.

## PROJECTS

**Self-Driving Car Projects** - TensorFlow, Keras, OpenCV

- Helping autonomous vehicles to identify the lane lines and the radius of curvature on the road using computer vision techniques like Canny detection, Sobel Filters and Hough transformation. The code works perfectly on real videos.
- Created a deep CNN (based on a LeNet architecture) in TensorFlow to identify German road signs with a test set accuracy of ~96%.
- Performed Image augmentation to increase the size of training data.
- Engineered a transfer learning network in Keras to clone the behavior of a driving car; predicting the steering angle for every frame. Data was collected in a Unity simulator.

**Search Query Validation** - Numpy, Pandas, Scikit-learn, R

- Built a binary classification model, using gradient boosting with decision trees, predicting the validation of URLs against search queries. Model was trained on 80K+ observations w/ 10 attributes each.
- Performed feature engineering to add 2 new features. Achieved an accuracy of 63% (best was 65%) on unseen data containing 30,000 observations.

**Airport Delay Dashboard** - D3.js, HighCharts, R

- Led system design in a team of 3 developers. Created an effective and interactive web-based visualization system for airport delay data to provide an in-depth analysis by displaying more than 6 dimensions.

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**Coursework:** Data Structures, Operating Systems, Graph Theory

- Used K-means clustering to visualize airports with a similar delay trend. Implemented a search functionality which lets you search more than 100 airports by name or code in a visually intuitive manner.