KESHAV POTLURI
SOFTWARE AND DATA ENGINEER

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EDUCATION

University of California, Berkeley 2015 - 2017
Masters of Information Management & Systems

National Institute of Technology, Surat 2008 - 2012
Bachelor of Electronics and Communication Engineering

WORK EXPERIENCE

Autodesk May 2016 - Present
Software and Data Engineer

- Conceptualized, designed and developed **data models** for a **Ruby on Rails** web application.

- Developed **REST APIs** to support data flow between front end and server for the application.

- Designed and developed **automation scripts** and **batch jobs** to create data pipelines between multiple datasources, Spark based analytics platform (Databricks), Amazon S3 servers and a Ruby on Rails web application.

- Created data validation and test framework to support **Spark** based analytics platform in PySpark and Scala.

- Supported **data science** team by creating data models, performing ETL, creating Automation scripts for data model modification etc.

UC Berkeley/Localground Jan 2016 - May 2016
Front End Developer

- Migrated existing application from traditional **MVC** architecture to **Single Page Application** framework by quickly learning and adopting Backbone.js, Marionette.js and Bootstrap.

- Brought 30% reduction in code size and increased application scalability by redesigning code architecture and remodularizing code.

Deloitte Consulting Jan 2013 - July 2015
Technology Consultant

- Lead developer/Consultant in the dev team of KYNECT, a health insurance ecommerce website funded by Obamacare.

- Led global teams of 3-5 analysts, in an agile environment to deliver timely and quality product features worth **$2.5 M**.

- Co-designed and developed a critical Shopping Cart module which allows 500K+ individuals to manage their insurance plans and government benefits.

- Saved more than **$5M** for the client by identifying critical glitch in the billing batch process and fixing it in a CI/CD manner in production.

- Designed multiple **relational database models** and components (stored procedures, functions, triggers, sequences etc.) to handle millions of records, scaling on top of existing database.

- Improved **performance** of the system by using techniques like query optimization, removing deadlocks, caching, etc.

- Instructor for multiple **.NET** and **Silverlight** trainings for new members to the firm.

AWARDS

Fast-track Promotion
Deloitte Consulting, 2014
Managed delivery of a critical module within 50% of time and resources to meet a targeted project deadline.

Applause Awards (Multiple)
Deloitte Consulting, 2013-15
Exceptional performance within the firm and excellent client delivery.

ACADEMIC TEAM PROJECTS

SoccerGuru
Tech: D3.js, AngularJS, HTML, Javascript
An interactive online dashboard for the data collected from the English Premier League showcasing innovative visualizations for better data analysis.

Review Digest
Tech: Python, Pandas, ScikitLearn, NLTK
Built an **automated review-summarizer** that applied **data mining techniques** on Amazon reviews for a given product to **identify** the **key-features** being talked about and determines the **sentiments** around them.

Find 'N' Ride
Tech: Django, Python, Heroku, PostGres, Bootstrap, Google Maps, Yelp, Uber APIs
Built a **website** using **MVC architecture** to identify restaurants of a specified cuisine in the neighbourhood and generate a fare-estimate and directions to reach there.

Automated Music Genre Detection
Tech: Librosa, Python, Keras, Neural Networks (LSTM)
Identified audio features that differentiate music genres, extracted them from audio files and **developed a neural network to classify** them into different genres.

LANGUAGES

Python, Ruby	C#, Java
SQL	HTML, CSS, Javascript

DATA ENGINEERING / DATA SCIENCE

Extract, Transform & Load (ETL)	Data Mining / Analytics
Datawarehousing/ER Modelling	Machine Learning
Data Vizualization	Natural Language Procesing
Spark, Databricks	NLTK, Scikit-Learn

WEB DEVELOPMENT

MVC, MVP, MVVM	Single Page Applications
.NET, Silverlight	Marionette.js, Backbone.js
REST-ful architecture	Front-End development

DATA VISUALIZATION

Tableau	Highcharts
D3.js	Adobe Illustrator