

# MANGALORE RAKESH SHENOY

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## COURSEWORK AT USC

Analysis of Algorithms  
Web Technologies  
Foundations of AI  
Machine Learning  
Multimedia Systems Design  
Software Engineering I

## LANGUAGES

In order of experience

C/C++, Python, C#, SQL, Java,  
MATLAB

## WEB TECHNOLOGIES

In order of experience

HTML, CSS, JavaScript, PHP,  
Bootstrap, jQuery, Node.js,  
Laravel, SquareSpace

## OTHER

Windows, Linux/OS X, Visual  
Studio, XCode, Git, Android  
Studio, MySQL, Rational Team  
Concert, Jira, Asana

## EDUCATION

**MS IN COMPUTER SCIENCE** ▪ 2015 – 2017  
**UNIVERSITY OF SOUTHERN CALIFORNIA** ▪ GPA: 3.15  
**BE IN COMPUTER SCIENCE & ENGINEERING** ▪ 2011 – 2015  
**VISVESVARAYA TECHNOLOGICAL UNIVERSITY** ▪ GPA: 3.8

## WORK EXPERIENCE

### RESEARCH INTERN at ModCon IP LLC

Los Angeles, CA ▪ May 2016 – August 2016

Part of the Artificial Intelligence team that researched methods to detect objects in a given scene. Tried various techniques to predict the position and orientation of the object in a future frame. Implemented the code in Python using OpenCV.

### SOFTWARE ENGINEERING INTERN at IBM India Software Labs

Bangalore, Karnataka ▪ January 2015 – July 2015

Developed a new feature for the Rational Team Concert Shell Client which allows the user to configure compare tools and map them to file types using regular expressions. Implemented the code in C# .NET and XAML.

## HACKS

### PICTURE YOUR TRIP! – CLARIFAI TRAVEL HACK ▪ July 2016

Developed a travel recommendation web app that suggests places based on the user's photos on Facebook or Instagram. Used Node.js, Express.js, Clarifai API, Google Places and Maps API, Facebook API, and Instagram API.

## PROJECTS

### VYMA WEBSITE MIGRATION

September 2016 – current

Migrating WordPress website to SquareSpace for easier maintenance. Adding online registration and payment system to target a larger audience. Acting as Operational Concept Engineer and as one of the developers.

### POKEMON TRAINER WEB APP

September 2016

Developed a Laravel-based web app for trainers to register and create profiles, see what Pokémon other trainers have, search for Pokémon. Added admin login with permissions to add/delete Pokémon and update profiles.

### SANTANDER CUSTOMER SATISFACTION – KAGGLE

April 2016

Implemented logistic regression, random forests, and XGBoost in Python, in order to best predict whether a customer is satisfied based on the given data.

### BAYESIAN NETWORKS

April 2016

Implemented variable elimination to calculate probabilities, and built an agent that calculates expected utilities and selects rational actions for given queries.

### WEATHER FORECAST ANDROID APP AND WEBSITE

November 2015 – December 2015

Developed an Android app in which the user can enter an address in the United States and get the weather forecast for that place. Used the Google Geocoding API, Forecast IO API, Aeris Weather API, and Facebook API.

### AUTOMATIC SPEECH RECOGNITION

February 2015 – June 2015

Received best project award. Built an isolated speech recognition application which identifies a word spoken by the user. Implemented Fast Fourier Transform, Mel-Frequency Cepstrum, and Dynamic Time Warping in C#.

## VOLUNTEER WORK

### WEB DEVELOPER at Westside German Shepherd Rescue

Los Angeles, CA ▪ June 2016 – current

Rebuilding website with better UI/UX. Adding filtered search functionality. Building new SQL database with backend web portal for easier updating.