

# PRAKHAR KHANDELWAL

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## EDUCATION

### **Master Of Computer Science, Computer Science**

**Fall 2016 - Spring 2018**

Arizona State University (ASU) Tempe, Arizona

GPA: 3.22/4

**Graduate Coursework:** Statistical Machine Learning, Natural Language Processing, Deep Learning in Computer Vision, Knowledge Representation, Database Management Systems Implementation

### **Bachelor Of Technology, Computer Science**

**Fall 2010 - Spring 2014**

Amrita Vishwa Vidyapeetham, India

## PROFESSIONAL EXPERIENCE

### **Computational Research Aide**

**Center for Biology and Society, Arizona State University**

**Started February 2017**

- Data mining and cleaning from multiple Medical data sources.

### **Software Developer**

**Toko Innovation Studios Pvt Ltd**

**3 months, April 2016 - June 2016**

- Led a team of 4 to rebuild the data layer for making database queries faster and asynchronous using Firebase, JAVA.
- Programmed random background generation for parallax layers and animation synchronization across the application 'Nugget Kids'.
- Designed the application flow according to market requirements and coordinated with the team to ensure the timely completion of the product.

### **Full Stack Software Developer**

**Chronosphere Technologies Pvt Ltd**

**1 year 6 months, September 2014 - March 2016**

Online travel itinerary planner

- Designed the product's Content Management System with multi-user role access using Python, Django, PostgreSQL.
- Programmed the system data layer using Spring, Thrift, JOOQ, PostgreSQL.
- Implemented the suggestion engine which suggested the optimal accommodations, flights, attractions and places based on the user requirements.
- Programmed the web front end for the application using HTML5, CSS3, LESS, AngularJS. Automated the deployment of web application on Heroku while taking care of tests, minification and uglification.
- Built backend system on micro service architecture paradigm containing Suggestion engine, Frontend, Internal login using LDAP, User login using OAuth2, On call module.
- Created multiple internal libraries which reduced development time and effort.

Travel Chat Application: Agent Side

- Built the backend for the chat application using Spring boot, JOOQ, Thrift, gradle.
- Designed and programmed Agent login system using Spring LDAP library.
- Utilized Spring security with JWT for authentication and authorization.

### **Technical Consultant**

**Iricity Leadership Pvt Ltd**

**5 months, June 2016 - October 2016**

- Engineered the first draft of the backend for the product which included data layer, chat module, user authentication and authorization on NoSQL paradigm.
- Designed the system architecture for the product such that all requirements were met and the system run asynchronously.
- Helped the team solve various problems that they encountered in the development of the product over the course of my consultancy.

## ACADEMIC PROJECTS

### **Predict result of KDD Cup 2016**

**2 months, October 2016 - November 2016**

- Analyzed past 5 years heterogeneous data in KDD to predict the ranking of affiliations in different conferences.
- Used Brown's Simple Exponential Smoothing, SVM Rank and Gradient Boosting Decision Trees to predict ranks and evaluating them using the Normalized Discounted Cumulative Gain. Python,SQL

### **Unmanned Ground Vehicle**

**Spring 2014**

- Designed a steering mechanism for a robot car on a simulator.
- Utilized the inputs (photos of land ahead) to train the neural network.

### **Student Cultural Festival Website**

**Fall 2012**

- Led a team of developers to make the student cultural website.
- Built the participant enrollment system.

## OTHER ACHIEVEMENTS

- National Programming League 2012, NIT Warangal, India: Among the Top 150 (1%) finalists.
- Hosted SLAC (Stay Late and Code) a 24hr non-stop inter college Appathon in Amrita School of Engineering, Bangalore.

## TECHNICAL SKILLS AND RELEVANT COURSES

Programming Languages: Java, Python, JS, HTML, CSS, C++, C

Libraries and Frameworks: Spring, Spring Boot, JOOQ, Thrift, Django, AngularJS, ReactJS, AngularJS 2.0, LESS