

# Madhur Kapoor

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## Education

- **Master of Science in Computer Science** *University of California, San Diego, CA*  
GPA:3.8/4 *Expected: Dec '16*
- **Bachelor of Engineering in Computer Science** *PES Institute of Technology, Bangalore*  
GPA:9.44/10 — Top 6% of CSE '14 batch *Sep '10 – May '14*

## Experience

- **San Diego Supercomputer Center** *San Diego, CA*  
*Graduate Student Researcher - Delphi Project* *Jan '16 – Present*
  - Contributing to the Predictive Analytics side of the project to intelligently estimate the public health factors affecting health outcomes like Anxiety
  - Developed a pipeline for extracting important features for a given outcome, say Anxiety, and using those chosen features to generate rules using Association Rule Mining [Java, Python, Weka]
- **Qulinary** *San Jose, CA*  
*Part-time Freelancing Software Engineer* *Dec '15 – Feb '16*
  - Worked on an Ionic & Cordova app for real-time driver tracking and route optimization using AngularJS, Leaflet.js
  - Implemented an on-demand route optimization service to suggest an optimal order of traversal to drivers and aid them in deliveries [JS, Angular.js, Redis, Ionic-Cordova]
- **Citrix R&D** *Bangalore, India*  
*Software Test Engineer I — XenDesktop Division* *July '14 – July '15*
  - Developed automation for the Personal Virtual Disk and Personalization product line from scratch up to 42% to reduce testing time of each build by minimizing manual work [PowerShell]
  - Designed and implemented UPM Troubleshooter (released as a hotfix), for customers and admins to debug their UPM setup which significantly reduced the round-trip-time for addressing customer issues [C#]
- **Artoo** *Bangalore, India*  
*Software Engineering Intern* *June '13 – Aug '13*
  - Engineered an Admin dashboard for the client Ujjivan Financial Services, to track the activity of their field agents in providing loans to Bottom of Pyramid entrepreneurs [Ember.js, Mocha, Chai.js, CouchDB]
  - Incorporated a lazy module loader into the application to significantly improve the boot-time [Require.js]

## Projects

- Perfecting Passenger Pickups - An Uber Case study:** Predicted the top pick-up zones at any given hour, using 6 months of Uber pickup data from NYC. Also analyzed top night-life zones and holiday trends as per Uber [Python, Scikit, JS]
- Rating & Helpfulness Prediction on Amazon data:** Analyzed 1 million Amazon reviews to predict the helpfulness of a review (regression) and rating that a user would give to an item (using latent factor models) [Python]
- Realtime Handwritten Content Collaboration:** Implemented a handwriting based collaboration framework that enables multiple remote parties to collaborate using pen and paper in real-time. [Java, OpenCV, Android]
- In-organization Search Engine:** Built an intra-organization, mini search engine to query over textual data of an organization and return the related documents, using a single node Hadoop cluster [Java, Hadoop Map Reduce]

## Skills

- Proficient with C++, Python & basics of C, Java
- JavaScript & MVC frameworks in JS (Angular, Ember)
- PHP, PowerShell and basics of Node.js
- Basics of Hadoop Map-Reduce
- Mobile Development with Ionic and Cordova
- Windows and Linux (Ubuntu) Internals
- Functional Programming - Haskell
- MySQL & basics of Redis, CouchDB