Chintan A. Panchamia
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EDUCATION:

North Carolina State University, Raleigh, NC **(August 2015 – Present)**
Master of Computer Science (Expected Graduation: May 2016)

University of Mumbai, Mumbai, India **(August 2011 – May 2015)**
Bachelor of Engineering, Computer Engineering (Graduation: May 2015)

TECHNICAL SKILLS:

Languages: Python, Java, HTML5/CSS3, JavaScript, jQuery, MySQL
Frameworks: Bootstrap, Django, Flask, Apache Spark, and basic Selenium and JUnit experience
Tools: Adobe CC, Balsamiq, JustInMind, Android Studio, Eclipse

RELEVANT COURSEWORK:

Human Computer Interaction, User Experience, Analysis of Algorithms, Algorithms for Data Guided Business Intelligence, Software Engineering, Computer Graphics, Database Management Systems, Data Structures

WORK EXPERIENCE:

Jacobs Engineering **(Jun 2016 – Aug 2016)**

Software Development Intern

- Designed and integrated a completely open-sourced cloud network, using OpenStack Mitaka, along with OpenVPN to create a tunnel for users to log into the network from anywhere outside the laboratory
- Led a team for designing a unified Project Management and Version Control system, using Open Project, GitLab, and Wiki
- Carried out necessary prototyping and other UX activities to successfully design a portal and a front-end management system for the entire suite of components (Technologies: Django, HTML5/CSS3, JavaScript)

Independent Study **(Aug 2016 – Nov 2016)**

- Conducted an extensive research of prevalent texts in HCI and Interface design, to help Dr. Rob St. Amant at NC State University in compiling a reference guide for students taking up the beginner level course on the same

PROJECTS:

- **Sharks, Citizen Science Website for Middle School Students** **(NCSU, Spring 16; Jan 2016)**
  - Redesigned the UX/UI for a website that helps Middle School Students dig virtually for shark teeth
  - Other activities included measurement of the teeth, followed by studying generated histograms of teeth distribution
  - Improved the experience, by refining the interface, and rearranging information layout
- **Music Recommender System & Twitter Sentiment Visualizer** **(NCSU, Spring 16; Jan 2016)**
  - Studied Collaborative Filtering techniques, and implemented the ALS algorithm using Python and Apache Spark
  - Made use of Apache Kafka to understand stream processing, built a simple visualizer for a sentiment analysis program
- **University Library Database Application** **(NCSU, Fall 15; Sep 2015 – Nov 2015)**
  - Designed a Java application to connect to and manage an Oracle 10g backend, with the front end using Java Swing
  - Application is programmed to make reservations for resources like books, journals, articles, rooms, cameras, etc.
  - Also equipped with PL/SQL procedures which provide timed locks on reservations
- **Ink – A Social Network for Authors and Writers** **(NCSU, Sep 2015 – Nov 2015)**
  - Applied the UX/UI principles put forth by Norman and Nielsen to design an effective prototype for a web app
  - This social network application was designed by surveying writers and computer scientists iteratively
  - GOMS and KLM were used to test the Usability of this prototype made using Bootstrap, HTML5/CSS3, JavaScript
- **Ringer using Twitter-based Crowdsourcing** **(NCSU, Fall 15; Oct 2015)**
  - Designed a Python application using Twitter's Streaming API, which uses information like the noise level of a place
  - This information along with past data on people's phone ringers in similar conditions is used to make predictions
  - These predictions are based on neighbors' reactions from the past and other other ringer statuses in the same place
- **Real Time Analysis of a Movie's Performance** **(University of Mumbai; Aug 2014 – Apr 2015)**
  - Designed and built a classification and prediction system, to predict the box-office success of Bollywood movies
  - Made use of the Twitter Streaming API to collect information about people's anticipation regarding the said movie
  - Used a two-stage sentiment analyzer to refine classification as much as possible, followed by ID3 for prediction
- **Feed Optimization using Quality-based Content Filtering** **(University of Mumbai; Jan 2014 – Apr 2014)**
  - Co-authored and published a paper on a creative way to improve the quality of a news feed (ISBN: 973-93-80883-63-5)
- **Help My Home** **(University of Mumbai; Aug 2013 – Oct 2013)**
  - Designed the UX/UI for a web application using HTML/CSS, JavaScript and PHP
  - The website allows for customers to post about their problems online to a service provider they can choose near them