

## **Chintan A. Panchamia**

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### **EDUCATION:**

**North Carolina State University, Raleigh, NC**  
Master of Computer Science, CGPA: 3.22/4.0

**(August 2015 – Present)**  
(Expected Graduation: Dec 2017)

**University of Mumbai, Mumbai, India**  
Bachelor of Engineering, Computer Engineering

**(August 2011 – May 2015)**  
(Graduation: May 2015)

### **TECHNICAL SKILLS:**

**Languages:** Python, Java, HTML5/CSS3, JavaScript, jQuery, MySQL

**Frameworks:** Bootstrap, Django, Apache Spark, elementary AngularJS & NodeJS, 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 using Scrum, 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
- **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.
- **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