

# Neel Kapadia

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## EDUCATION

**Master of Computer Science, North Carolina State University - GPA: 3.9/4.0** August '17 – Dec '18(Expected)  
*Coursework:* Design and Analysis of Algorithms, Foundation of Software Science, Software Engineering, Database Management Systems, Software Security, Internet Protocols, Foundations of Data Science

**B. Tech, Information Technology, Veermata Jijabai Technological Institute - GPA: 8.75/10** July '13 - May '17  
*Coursework:* Object-Oriented Software Engineering, Database Management Systems, Data Warehousing, Data Structures and Algorithms, Neural Networks, Data Mining, Cloud Computing, Computer Networks

## SKILLS AND EXPERTIZE

**Languages:** Java, Python, Node.js, NoSQL, SQL, PostgreSQL, R, Shell Scripting, HTML, CSS, PHP

**Tools:** Amazon Web Services, QLIK Data Visualization, MongoDB, Weka, Apache Hadoop

## WORK EXPERIENCE

**Medfusion Inc, Raleigh** May '18 - Present  
**Software Engineering Intern, Data Services** (Java, Spring Framework, Hibernate, Maven, QLIK, PostgreSQL, MongoDB)  
**Project 1:** Creating and Testing Spring Boot Java Applications using Hibernate to generate statistical reports from multiple real-time PostgreSQL data sources and extracting the reports using Apache POI  
**Project 2:** Detecting patterns in patient behavior by visualizing a million patient CCDs using QLIK visualization tool

**Barclays Technology Center, India** May '16 - July '16  
**Business Analyst Intern, Investment Banking Services** (Java, Python, Shell Script, Maven, Git, SQL)  
**Project 1:** Built 14 scripts to reduce reliance on SVN system by migrating source code to GIT and SCM management using Python API  
**Project 2:** Designed scripts for testing Message Passing streams using Java Spring Framework and JUnit Testing

**Larsen and Toubro, India** May '15 - July '15  
**IT Intern (Data Analytics), Spend Analytics Department** (Python)  
Extracted and pre-processed data from various data sources for Spend Analytics for Supply Chain Management  
Implemented an algorithm to improve the cost-cutting model (by 18%) and predict future trends in expenditure

**Fifth Quarter InfoMedia** May '14 - July '14  
**Front End Development Intern, Media and Entertainment Services** (HTML, CSS, JavaScript, SQL, Bootstrap)  
Developed an entertainment website with real-time movie news, celebrity interviews and music using Bootstrap templates

## ACADEMIC PROJECTS

**Software Engineering – WolfPal: Course Recommender System** (Java, Python, Natural Language Processing, Node.js)  
Designed a system to extract keywords from students' resume using stemming and lemmatization  
Suggested courses to students using Topic Modelling (Latent Dirichlet Allocation) to map keywords to courses  
Created a discussion forum where students can discuss about the courses with peers/seniors

**Spatiotemporal Data Mining – Analysis of Global Check-in Foursquare Data** (Python, Google Map API, JavaScript)  
Visualized global NYC check-in data using Google Map API  
Created a personalized recommendation engine to suggest places to users using probabilistic modelling  
Implemented an algorithm which recommended users to places using Bayesian probabilistic model and collaborative filtering

**Software Engineering – WolfPlanner: Automatic Task Scheduler** (JavaScript, Python, Node.js, AWS, NoSQL, MongoDB, DialogFlow)  
Designed a system to generate weekly schedules for students for home work, assignments and projects  
Provided exclusive functionality to decide project meeting timing based on availability of each team member

**Data Mining - Decision Tree Learner for multi-objective optimization** (Python, Decision Tree, Contrast Sets)  
Designed a decision tree algorithm using binning, discretization, entropy, and domination measures  
Generated contrast sets for optimization using delta, effects, plans and monitors measured from the decision tree

**Software Engineering and Data Analysis – Online Accreditation System** (Java, Python, JavaScript, PHP, HTML, CSS)  
Designed a system that stored and analyzed extra-curricular and academic activities of students to generate trends in strengths and weaknesses of students and suggest curriculum changes  
Enhanced the user experience by auto-generating reports for evaluations using Reportico and Google Charts

## EXTRA CURRICULAR ACTIVITIES

**Certifications:** Machine Learning (Grade: 96.5%) by Stanford University, Programming Languages Java, C and C++

**University Events:** Chief Sponsorship Officer (headed a team of 100 students) in Technovanza (college festival)

**Community Services:** Waste paper collection, Garbage Collection, Support for orphanage and old age homes

**Interests:** Numismatics, Cricket, Music