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, Software Engineering, Database Management Systems, Software Security, Internet Protocols, Foundations of Data Science, Automated Learning and Data Analysis

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, C++, NoSQL, SQL, PostgreSQL, R, Shell Scripting, HTML, CSS, PHP

Tools: Amazon Web Services, QLIK Data Visualization, MongoDB, Weka, Apache Hadoop, Jenkins, Swagger API

Technologies: Git, Java Spring Boot, Hibernate, Maven, Elastic Search, Selenium, Apache POI

WORK EXPERIENCE

Medfusion Inc, Raleigh May '18 - Present

Software Engineering Intern, Data Services **(Java, Spring Framework, Hibernate, Selenium, Swagger API, 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: Implemented a Selenium client to identify Healthcare features and performed probabilistic analysis to generate mappings

Project 3: Detecting patterns in patient behavior by visualizing a million patient CCDs using QLIK visualization tool

Barclays Technology Center, India May '16 - July '16

Business Technology 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 to analyze student activities to generate trends in strengths and weaknesses 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)

Interests: Numismatics, Cricket, Music