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, 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