

# Niharika Dalal

Seeking an **internship** position for **Summer 2019**.

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## EDUCATION

**Rochester Institute of Technology**, Rochester, New York — *Master in Software Engineering* [AUGUST 2017 - PRESENT (EXPECTED GRADUATION: DECEMBER 2019)]

- Relevant courses: Foundations of Software Engineering, Software Modeling, Software Quality Engineering, Process Engineering, Evolution and Re-engineering.
- GPA: 3.83/4.00

**Mukesh Patel School of Technology Management and Engineering, NMIMS**, Mumbai, India — Bachelor in Computer Engineering [JULY 2013 - MAY 2017]

- Relevant courses: Object-Oriented Software Engineering, Design & Analysis of Algorithms, Intelligent Systems, Software Quality Assurance & Testing, Data Structures, Fundamentals of Web Technologies.

## EXPERIENCE

**Alstom**, Rochester, New York — *Software Developer Co-op*  
[MAY 2018 - PRESENT (TILL DECEMBER 2018)]

- Working with company tools and simulators to assist with railway signaling solutions.
- Writing code in Visual Basic to generate database facts used to create application logic boolean equations.
- Drafting railway track layouts in AutoCAD to generate route information.

**Rochester Institute of Technology**, Rochester, New York — *Graduate Assistant*  
[AUGUST 2017 - MAY 2018]

- Assisted a professor in his research project on developing visual analytics for a software team using data mining and Natural Language Processing.

**Hindustan Petroleum Corporation Limited (HPCL)**, Mumbai, India — *Information Technology Summer Trainee*  
[MAY 2016 - JUNE 2016]

- Worked on front-end development with Dreamweaver; designed responsive and adaptive webpages for the website of HPCL, participated in development of the Indian Institute of Petroleum and Energy website.
- Led a team of four, took initiative to present and explain the work done to the senior

## PROJECTS

### **The Wegmans' Assistant**

- Built an application allowing users to interact using text or speech with the Google Assistant to search for availability of a specific product sold by Wegmans at a store nearest to the user.
- Technologies used were Wegmans' API, Google Cloud Platform, Google Assistant, nodeJS, JavaScript (axios, geolib libraries).

### **Visualization Tool for Sentiment Analysis**

- Developed a tool to analyze and visualize sentiments from textual data.
- Extracted data from a relay chat data using BeautifulSoup (a Python library), used an emotion lexicon, and created the visualization tool using D3.js.
- Project classified under Natural Language Processing and Human-Computer Interaction.

### **Webcheckers**

- Created an online version of the game of checkers using the Java Spark framework.
- Carried out all stages of SCRUM in a software development life cycle including completion of the project in sprints, created test cases for the implemented code to check if all requirements were covered and to obtain the required coverage.
- Made use of technologies such as Free Marker Templates, JUnit, Mockito, JaCoCo (for Code Coverage), Github, Trello, Slack and LucidChart.

### **Software Application Mining 2018**

- Developed a web application to build a platform allowing for submission of papers by authors, assignment of the submitted papers to the committee members (PCMs) by the committee chairs (PCCs) and reviewing of the papers by the PCMs and finally by the PCCs.

## TECHNICAL SKILLS & TOOLS

### **Language:**

Python, Java, ReactJS, Angular, Django, HTML5, CSS3, Bootstrap, C/C++, C#, MySQL, jQuery, JavaScript, D3.js, Ruby, Rails, Visual Basic, Object-Oriented Design

### **Tools:**

PyCharm, Sublime Text, NetBeans, IntelliJ IDEA, StarUML, Photoshop, Git, Inkscape, Dreamweaver, Illustrator, GIMP, Matlab, Android Studio, Octave, AutoCAD, DWG Editor

## LEADERSHIP / EXTRACURRICULAR ACTIVITIES

- Completed an online course on Human Computer Interaction.
- Certified Microsoft Technology Associate on Software Development Fundamentals.
- Participated in BrickHack4, a hackathon organized by Rochester Institute of Technology.
- Volunteered at an event motivating women to join STEM fields.
- Took an online course on Software Development Process.
- Completed a certified course on 'Object Oriented Programming using C#'.
- Co-founded the Linux User Group in my undergraduate college to promote the use of Linux.
- Executive member of the student chapter of Association for Computing Machinery (ACM).
- Executive member of Social Impact, which organized blood donation drive and encouraged students to teach at not-for-profit organizations
- Involved as a part of the Digital Creative team of Satva (college festival), in 2016, as a graphic designer.