

# Urmil Ashish Parikh

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## EDUCATION

- **Master of Computer Science** - North Carolina State University, Raleigh NC  
*Course work:* Software Engineering, DevOps, Algorithms, Object Oriented Design  
Aug 2017 - Present  
GPA - 3.78/4.00
- **B. TECH** (Computer Science) - National Institute of Technology, Surat, India  
*Course work:* Operating Systems, Information Security, Computer Networks  
Aug 2013 - May 2017  
GPA - 7.96/10.00

## SKILLS

*Languages:* Java, C++, C, Ruby, python, R, MATLAB, SQL  
*Web Technologies:* Ruby on Rails, Node.js, Express, PHP, HTML5, CSS3, JavaScript, JQuery, Jekyll  
*Tools:* Vagrant, Ansible, Selenium, Docker, Jenkins, Redis, MongoDB, Kubernetes, Travis-CI

## WORK EXPERIENCE

- Research Intern (Data Science) - SVNIT, Surat: May 2016 - July 2016  
*Performed Data collection and pre-processing of satellite imagery.*
- Automated data collection process to update the satellite imagery on an hourly basis.
  - Extracted cloud cover information from the images by applying Adaptive Brightness Thresholding on different sections of varying intensities.
  - Collected historical weather data from wunderground.com using web scraping. Used the data for finding the accuracy and improving performance.

## PROJECTS

### **DevOps, Continuous Integration and Configuration Management | Jenkins, Ansible, Shell**

- Wrote a configuration management script for provisioning a Jenkins server using Ansible.
- Used the Jenkins command line tool to build the source code for two different applications.
- Created post build tasks to automatically deploy the applications when the build is successful.

### **Expertiza - an open source, peer review web application | Ruby on Rails, RSpec**

- Worked on the functionality of email invites. Improved its security by adding a timeout on the email link.
- Wrote automated Unit Tests using RSpec testing framework. Increased Coverage from 51.4% to 53.2%.

### **Slack Application to Recommend Android Libraries | Nodejs, MongoDB**

- Added a Chabot feature to make the application interactive and improve user experience.
- Implemented GitHub hooks to trigger recommendation process following a code change in the repository

### **An MVC Web Application for Car Rental | Ruby on Rails, Postgres**

- A car rental application with features to view, reserve or checkout a car, check your booking history, view the list of available cars and suggest new cars. Implemented using Ruby on Rails framework.
- Created an admin functionality to manage the application.

### **Test Coverage Analysis for the source code | Nodejs, Esprima, Istanbul**

- Generated and analysed the abstract syntax tree of given JavaScript source code using the Esprima parser.
- Calculated the statement, branch and conditional coverage for input test cases. Used the Istanbul library.

### **GitHub Star-Index | REST API, Express**

- Created an application to calculate the impact of a developer on the community by analysing the stars on his GitHub Repositories. Used GitHub API to access public repositories of the user.

### **Tic-Tac-Toe Application for Android | Java, Android SDK**

- Implemented a single player mode for the game where player could play against the computer.
- Used the Minimax algorithm for move prediction which made it unbeatable.

## ACHIEVEMENTS

- Successfully completed edX courses on Agile Development, User Experience and Artificial Intelligence.
- Co-authored a research paper titled "Weather Forecasting using Satellite Images" which was published in an international journal.
- Proficient Chess Player with 1300 Elo rating on chess.com