

# Harsh Jatinbhai Patel

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## EDUCATION

### **North Carolina State University, Raleigh, North Carolina**

**August 2018 – December 2019**

Master of Computer Science ( GPA: 3.83/4.0 )

**Course Work:** Design and Analysis of Algorithms, Foundations of Data Science, Internet of Things – Analytics, Software Engineering, Automated Learning and Data Analysis, Algorithms for Data Guided Business Intelligence.

### **Nirma University, Ahmedabad, India**

**July 2012 – June 2016**

Bachelor of Technology, Computer Science ( GPA: 8.72/10 )

**Course Work:** Design of Operating System, Data Structure and Algorithms, Cloud Computing, Object Oriented Programming, Artificial Intelligence, Computer Networks, Data Mining and Warehousing, Database Management, Data Compression.

## TECHNICAL SKILLS

- **Programming and Scripting Languages:** C, C++, Python, JavaScript, R, Java, Bash.
- **Web Development Languages and Frameworks:** HTML, CSS, TypeScript, Angular.js, Node.js, React.js, React Native, Sass, JQuery, D3.js, Express.js, Ionic, Cordova, Sencha Touch, ExtJS, PHP, SQL, REST, JSON.
- **Databases:** MongoDB, MySQL, MS SQL, Oracle Database.
- **Operating Systems:** UNIX (Fedora, Ubuntu, CentOS, Red Hat), Linux, Windows, macOS.
- **Tools and Frameworks:** Git, Perforce, SVN, Jenkins, Ansible, Selenium, Hadoop, Google App Engine, AWS, Azure, TensorFlow, Keras, Kafka, Spark, JIRA, Eclipse, Visual Studio, Firebase, Heroku, BrowserStack.

## WORK EXPERIENCE

### **Software Engineer Intern, Akamai Technologies, Cambridge, MA**

**May 2019 – August 2019**

- Built a data ingestion and indexing pipeline to improve the text search and data extraction speed on the platform.
- Developed a search tool using various NLP embeddings and Text Classification techniques on the indexed text data.
- Implemented the web dashboard and metric visualizations of the search tool using React.js, Python, Node.js and d3.js.

### **Software Engineer (Full Stack Developer), Tata Consultancy Services, Pune, India**

**June 2016 – June 2018**

- Developed a user interactive code deployment web application using Angular 2.0, TypeScript, JavaScript, Node.js, HTML and CSS to automate the code integration and deployment process for streamlining the release of project deliverables.
- Designed a hybrid mobile application using Angular.js and Ionic Framework for employee data management of the company.
- Implemented RESTful APIs for CRUD operations using Node.js and Express.js with MongoDB as a database.
- Developed a feedback form builder web application using Python to create dynamic forms based on the user's requirement.

### **Technology Analyst Intern, Morgan Stanley, Bangalore, India**

**May 2015 – July 2015**

- Built a wealth management portal using ExtJS, JavaScript along with an analytics dashboard for data visualization using D3.js.
- Designed and implemented a caching mechanism using C++ to decrease delay and redundancy in fetching stock market data.

## PROJECTS

### **Real Time Content Authoring Application**

- Built the application using Angular.js and Node.js to push user-generated content to a mobile application built using the Ionic framework where the author can add content on the web portal and send it to the mobile application in real time.

### **Trending Topic Miner**

- Designed a scalable and fault-tolerant data pipeline using Python, Spark, Kafka and Elastic Search to get real-time top trending topics and tweets from twitter streams by implementing the count-min sketch data structure and the Heavy Hitters algorithm.

### **Sales Forecasting Web Application**

- Developed a web application for forecasting the product sales of a company. Implemented different Generalized Linear Modeling Techniques using Python and used JavaScript to implement the analytics dashboard.

### **Inventory, Stock and Sales Management Application**

- Developed the application using PHP, Chart.js and MySQL to track stock, inventory and sales of any business along with an analytics dashboard to display the sales statistics which also displays prediction of sales using linear regression.

### **Stock Market Analytics Module**

- Implemented a stock market analytics module using the Map Reduce framework of Hadoop by consuming historical stock data. which provides a statistical summary report to build the prediction module for stock market prediction.

## EXTRA-CURRICULARS

- Technical Merit Award Winner at the LexisNexis Hackathon 2018.(Used Machine Learning and Data Science techniques to detect and correct errors in a given data set by pattern analysis with the help of training data obtained from the internet.)
- Creative Head at the IEEE Student Branch, Nirma University(2014 - 2015), Organized several Competitive Programming events and Technology Symposiums at the university.