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# VIRAJ BHALALA

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## EDUCATION

**New Jersey Institute of Technology**  
BS in **Computer Science**

Minor in **Business**

Expected Graduation: **May 2016**

**GPA: 3.66**

Dean's List (all semester)

## KEY COURSES:

Python, JAVA, Data Structures, Computer Organization and Architecture, Foundation of CS 1 & 2, Programming Language Concept (C++ and JAVA), Principles of Operating Systems, Linear Algebra, Intensive Programming in Linux (C, Bash, PHP), Database System Design and Management (SQL), Statistics, Economics, Management, and Calculus 1, 2 and 3, and Accounting

## VOLUNTEER EXPERIENCE:

**Manager** - Bloomfield High School Store  
2012 - 2013

Volunteer - Saint Barnabas Hospital  
June 2010 - July 2011

## HONORS:

-NSF Research Experience for Undergraduate Scholarship (2015)

-Future Business Leader Of America Bloomfield Chapter  
**President** (2012-2013)

## INDEPENDENT COURSES:

-MongoDB for Developers (MongoDB university)

-iOS Development (Udacity)

## OBJECTIVE

To obtain an intensive IT internship/co-op or fulltime position (available fulltime after May 2016) in Big Data (Databases, Data Analytics, Data Mining, and Machine Learning), Software Development, IT Architecture, or IT Management.

## SKILLS

Programming Language: Java, Python, C++, C, Bash, and Swift.

Databases: SQL, MongoDB (NoSQL), and SQLite.

Web: HTML, JavaScript, CSS, and PHP.

Platforms: Windows, Linux, and MacOS.

Others: Research, Data Structures, OOP concepts, Accounting, Finance, and IT project management.

Applications: Eclipse, XCode, Linux Terminal, Photoshop, MS Office, Alfabet (Software AG IT planning)

## WORK EXPERIENCE:

### **IT Architect and Portfolio Management Intern- Prudential Financial**

June 2015 – Present

- Multiple projects focused in capability models, application evaluation, information flows between applications, application end of life determination, dependency factors, Application and Business evaluation, Architecture Alignment, and Infrastructure environmental health. (Software AG Alfabet)
- In addition, doing Web Development in PruXpress application (HTML 5, JavaScript, and PHP).

### **Big Data Research Assistant - NJIT**

Jan 2015 – May 2015

- Working with professor and PhD student in research project focused on effective search and knowledge discovery in online health care forums (WebMD, MedHelp, and thePatientForum).
- Developed Java applications that are used for crawling, data mining, and text analytics.
- Became familiar with Natural Language Processing, SVMs, Data mining, and text Analytics.
- **Tools & Technologies:** Java, Python, HTML, JSoup, Stanford NLP, NEC NLP, Crawler 4J, and Bit bucket.

### **Freelance Developer**

Aug 2014 – Mar 2015

- Solely developed telecarellc.com, dev.thirdwitness.net, and patelmanufacturing.com
- Designed and developed brochures, logos, and other pictures for clients.
- Tested iOS and android app and web applications on the virtualhealthsystems.net.

### **PC-Lab Consultant - NJIT**

Sept 2014 – Dec 2014

- Assisted Faculty/staff/Alumni by fixing any of their technical problems with projectors, computers, and other devices in the 3 labs (each with more than 60 computers).

### **CS, Chemistry, Physics Tutor - NJIT**

Sept 2014 – Dec 2014

## PROJECTS:

### **Most Active Stocks** (goo.gl/4hln63)

April 2015

- Developed in Python and Bash. Uses DOM and Tag Soup. Pulls data from WSJ.com

### **YouTube Information Extractor** (goo.gl/od2ZEi)

Mar 2015

- Extracts information such as Views, Title, Author, and Duration from YouTube page.
- Developed in Bash and uses grep functions.

### **URL Checker** (goo.gl/jcOsJW)

Feb 2015

- Developed in JAVA and uses Deterministic Finite Automata (DFA)

### **Deterministic Pushdown Automata** (goo.gl/xhYVFP)

Mar 2015

- Developed in JAVA and uses stacks.

### **DFA emptiness Checker** (goo.gl/tkNw3W)

April 2015

- Developed in JAVA and uses Deterministic Finite Automata and Turing Machine

### **Recursive Descent Parser (HTML compiler)** (bit.ly/1zovwqG)

Dec 2014

- Developed in C++ to catch all syntax errors in an input HTML file (Similar to compilers).