

# Jay Patel

## Georgia Institute of Technology

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### Education

**Georgia Institute of Technology** - Atlanta, GA

**August 2011 - May 2016**

Major: Computer Science B.S.

**Overall GPA: 3.11**

**Major GPA: 3.65**

### Skills

- **Programming:** Java, MATLAB, SQL, HTML, CSS, Processing, JUnit, JavaScript, D3.js, AngularJS, Google Apps Script
- **Software:** GitHub, SVN, Parse.com, Teradata, Eclipse, Apache Kafka, Apache Spark, Labview, SolidWorks
- **Version Control:** Git, SVN

### Professional Experience

**OrangeWorks - The Home Depot Technology Center-** Atlanta, GA

**August 2015 – Present**

*IT Associate Developer*

*(Part-Time)*

- Developing a Spark streaming solution using clusters to analyze large amounts of data
- Creating real-time inventory pipeline while analyzing over 2.5 million transactions per day through a Kafka messaging system
- Aggregate result from data sourcing calculations into carrier and granular levels to track concurrent availability

**The Home Depot** - Atlanta, GA

**May 2015 – August 2015**

*IT Intern – Software Development*

- Developed a new Web Application for the merchandising team involving protection plan services through the entire Software Development Cycle interacting with the business, design, and database teams
- Ported old green screens written in COBOL to an enhanced user interface in Java and HTML using AngularJS as the front-end and Java RESTFUL web services as the back-end
- Conducted integrated testing on the application through verification of the databases and created triggers which sent the changes on the database to the 2,224 retail stores across the world

**Health Informatics on FHIR (Fast Healthcare Interoperability Resources)** – Atlanta, GA

**August 2015 – Present**

*Senior Design Project – Center for Disease Control (CDC)*

- Collaborated with the CDC and developed a FHIR application that uses EMR/EHR data to improve the quality of data that is currently collected through death certificate forms
- Implemented Structured Data Capture (SDC) frameworks with FHIR resources for death reporting and developed an algorithm that helps physicians to determine the cause of death
- Increased accuracy of death reporting data between jurisdictions and reduced time for healthcare organizations to exchange health information electronically across silos through the application

### Technical Experience

**The Community Corps (Npower) / Catchafire – Pro bono Project**

**May 2015 – December 2015**

*Circle of Children: Wordpress Website Updates & Enhancements (<http://circleofchildren.org/>)*

*Pebbles of Hope: Mobile Site Prototyping (<http://www.pebblesofhope.org/>)*

- Helped non-profit organizations develop their applications that improved the quality of conveying their information
- Fixed technical issues involving web hosting, access files, and memory usage and enhanced the website through revamping the donation page allowing users to help the community in multiple ways, and creating a blog page through custom coding
- Created initial prototype for a mobile friendly site and mock ups for the mobile application with enhancements

**Bal Sevak Training (Youth Training) – Web Application**

**April 2015 – December 2015**

*Software Developer- Grading and application website*

- Created two Web Applications to help automation of logistical processes while connecting with the Parse database
- Built a Web Application that allows users to submit their application form while having a save functionality (<http://bstapp.ga/>)
- Built a Web Application that allows multiple graders to access submitted applications and analyze the submitted data (<http://bstappgrading.azurewebsites.net/>)

### Leadership

**BAPS – Non-Profit Organization** - Lilburn, GA

**May 2011 – Present**

*Regional Admin Reporter/ BST/ Regional Coordinator/ Software Developer*

- Planned and implemented over 50 different activities and projects on the local/regional level
- Organized logistically summer conventions involving over 500 youths
- Created various excel project in which Google Apps Scripts was incorporated to input and organize data

### Activities

- BAPS Campus Fellowship, Qurbani Dance Team – Captain, United Indian Student Alliance Fundraising Committee, GIT MAD(mobile apps), India Run of Hope- Fundraising Chair