

# Ishan Vadwala

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## Education

**BACHELOR OF ENGINEERING**, Gujarat Technological University, India

**JULY 2011 - JUNE 2015**

Major: Computer Engineering. **GPA: 7/10**

**MASTER OF SCIENCE**, San Jose State University

**AUGUST 2015-MAY 2017**

Major: Software Engineering. **GPA: 3.55/4**

## Technical Skills

**Programming Languages:** Java, C#, JavaScript, Swift, Python, Go, PHP, C++, C, SQL, HTML.

**Frameworks, Technologies & Tools:** Hibernate, Spring, Android SDK, AngularJS, React, Redux, NodeJS, JQuery, RESTful APIs, Xcode, Android Studio, Eclipse, IntelliJ IDEA, Git.

## Experience

**Mobile Apps & Games Development Intern, Sesame Street**

**June 2016 – Dec 2016**

- Constructed the scripts to implement game logic for the S'mores application using **Object Oriented** Programming methodology in C#.
- Single-handedly** led the development of a **subscription model** In-App-Purchase that fetches new levels from Amazon **S3** buckets.
- Designed** a modified **Graph algorithm** to figure out dependencies in assets, download and build them in order.

**Web Application Developer Intern, Softvan Technologies**

**June 2014 – May 2015**

- Developed web applications for Softvan's clients, built using Java as a backend with hibernate framework for Object-Relation mapping.
- Used JQuery and Ajax to fetch and render data for a responsive front-end created using HTML, CSS, & Bootstrap.
- Taught Core Java & Object-Oriented programming principles to junior interns.

## Personal projects

**Ishan's blog** (ReactJS, Redux, NodeJS, Webpack, ES6)(Live Demo: [Ishan's Blog](#)):

- Built a blog to write about React, Redux, CSS3 and responsive web design.
- Developed a **dynamic & responsive Content Management System** from scratch with **ReactJS** as a view library and **Redux** for state Management.
- Crafted a custom markdown system for adding, storing and displaying images and URLs when creating posts.
- Built a NodeJS backend to serve data, made it scalable and secure by employing JSON web tokens & using MongoDB as a data store.

## Academic Projects

**IOT farm produce Traceability (AngularJS 2, NodeJS, Android SDK, Python):**

- Utilized wireless **sensors** to **trace** and log a farm's **environmental parameters** such as atmospheric pressure, humidity, and temperature.
- Used raspberry Pi(s) as a central hub for those sensors to send data to. Developed an architecture where data travels from **Sensors -> Raspberry Pi(s) -> NodeJS servers on EC2 instances -> Web & Android** frontend.
- Developed an **Android front-end** to show detailed history of growing conditions, real-time sensor data, alerts in case of irregularity & QR code scanner to fetch information about a crop yield.

**AWS Production Deployment:** (AWS EC2, MongoDB, AngularJS, NodeJS, Load Balancer, Puppet):

- Developed and deployed a **MEAN stack** web application on 2 slave EC2 Instances with the **database sharded and replicated on each AWS instance**.
- Used **Puppet** to **automate configuration** in new **AWS instances** and to propagate any changes made by the **master**, to the 2 **slave instances**, used a load balancer to route traffic.

**Library Management System** (Spring framework, JPA ORM, JQuery, MySQL, EC2)( Github: [bit.ly/gitlibmgmt](https://bit.ly/gitlibmgmt)):

- Created RESTful APIs** using Java Spring Framework, used Model-View-controller architectural pattern & dependency management for improving reusability.
- Used Hibernate to create relational databases and automatically map multiplicity and relations between them.
- Used Google's Material Design Methodology to develop the frontend using JQuery.