

## work experience



**PhoneLab**  
Systems Researcher  
Feb 2015 - Present  
[phone-lab.org](http://phone-lab.org)

### **Progresso : Debugging User-Perceived Latency in Android Smartphones**

with *Scott Hasaeley, Nick DiRienzo, and Geoffrey Challen*

- Progresso is a system designed to use determinate and indeterminate progress bars to study user-facing latency on smartphones.
- It combines low-level Android Logging (platform instrumentation) and analysis to measure the length of time user waits for apps to complete certain actions.
- Performed a preliminary analysis of approximately 3 days of Progresso data from 197 users interacting with 453 Android apps collected using the PhoneLab Smartphone Testbed, and identified poor QoUI (Quality of User Interface) problems such as excessive waiting, lagging, and freezing.



**Project iCode**  
Workshop Organizer  
Summer 2015  
[github.com/brijeshrakholia](https://github.com/brijeshrakholia)

### **iCode : Introductory App Development Course**

with *Parth Mehta (Princeton University), and Darvish Kamalia (USC)*

- iCode is a course designed to teach basic app development to high school students.
- Developed an online diary, used it as an example to teach students how real-world web applications are written.
- Taught 40+ high school (SNK School, Gujarat, India) students app development using technologies such as Bottle, HTML, CSS, Python & JSON.



## personal projects [github.com/brijeshrakholia](https://github.com/brijeshrakholia)

### **HiSpy (HackPrinceton 2015)**

- Collaborated with two students to develop an Android app with Python backend
- A game using GPS that lets people play iSpy over their Android phone in public
- Technologies used : Android, MongoDB, Flask & JSON.

### **Robotic Arm in Free Space (Summer 2014)**

- Designed a robotic arm which can follow shadows of hand in 3D space.
- Technologies used: Leap Motion and Arduino
- Video : [tiny.cc/roboticarm](http://tiny.cc/roboticarm)



## potential skills

### **Languages**

C++	HTML
Java	CSS
Python	

### **Technologies**

Android	Git	Raspberry Pi
Flask	JSON	Leap Motion
Bottle	Arduino	



## education



**University at Buffalo**  
B.S Computer Science  
Expected May 2017

### **Relevant Courses**

Intro to Computer Science I & II, Discrete Mathematics, Data Structures, Digital Systems, Programming Languages, Database Concepts  
Fall 2015 – Linear Algebra, Algorithms, Computer Organization



## honors & awards

### **Dean's List – University at Buffalo**

- Dean's List ( those who achieve a GPA of 3.6 or above)

### **World Robot Olympiad (WRO 2012)**

- Top 20 out of 125 teams globally



## leadership

### **UB ACM** [ubacm.org](http://ubacm.org)

- Member of UB ACM since 2013
- Update [ubacm.org](http://ubacm.org) on a regular basis
- Helping organize UB Hacking 2015

### **FIRST** [usfirst.org](http://usfirst.org)

- Mentored team India at FIRST Championships, St. Louis 2013
- Lead the robot game at Open European Championship (OEC 2012) –Mannheim, Germany

### **Krushi Award – by Narendra Modi**

- Felicitated by Narendra Modi after winning Champions Trophy 2<sup>nd</sup> Place at OEC 2012 – Mannheim, Germany