

work experience



PhoneLab
Systems Researcher
Feb 2015 - Present
phone-lab.org

Progresso : Debugging User-Perceived Latency in Android Smartphones

with Geoffrey Challen, and Scott Hasaeley

- 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.



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.

Project iCode
Workshop Organizer
Summer 2015
github.com/brijeshrakholia



personal projects github.com/brijeshrakholia

HiSpy (HackPrinceton 2015)

- Android app used to spy around when bored.
- Upon entering a prompt, people in the surrounding can respond with pictures of what they think you saw.
- 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



potential skills

Languages

C++	MySQL
Java	HTML
Python	CSS

Technologies

Android	MongoDB	Arduino
Flask	Git	Raspberry Pi
Bottle	JSON	Leap Motion



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 acm.org

- Member of UB ACM since 2013
- Update acm.org on a regular basis
- Helping organize UB Hacking 2015

FIRST 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 2nd Place at OEC 2012 – Mannheim, Germany