# Nikhil Kulkarni

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**EDUCATION**

**GEORGIA INSTITUTE OF TECHNOLOGY Graduation May 2017**

BS Computer Science | Honors Program

**Oracle Certified Associate Java SE 7 Programmer**

**Relevant Coursework:** Introduction to Data Science, Artificial Intelligence, Database Systems

**EXPERIENCE**

**Georgia Institute of Technology Atlanta, GA**

**Undergraduate Research Assistant** August 2015 – Present

* Worked in Contextual Computing Group to create a system of testing an app that recognizes a user's hand/wrist motions (Ex. Swiping credit card, brushing teeth)
* Developed Apple Watch app in Swift and Pebble app in C to records user's hand motions for an 8-hour period and upload to custom REST API created via MongooseJS
* Used inertial sensors, HealthKit, and Google Fit API on Apple Watch, Android Wear, and iOS platforms to detect gestures and current activity (Ex. running, walking)

**Gozio Health Inc. (https://appsto.re/us/5Oqh-.i) Atlanta, GA**

**Software Engineer Intern** March 2015 – August 2015

* Reduced time required to provision BLE beacons by 75% by creating iOS app which extracts data from custom REST API and writes the data to the beacons via CoreBluetooth framework
* Improved beacon provisioning system by creating REST API via MongooseJS to allow provisioning devices to download and update beacon data
* Implemented indoor navigation and outdoor navigation features, using Google Maps SDK and custom indoor routes, in main iOS application for Children’s Hospital of Atlanta
* Combined BLE packet retrieval and CoreLocation geofencing to notify user when entering hospital property and when entering parking garage to open “Children’s” app

**SKILLS**

**Languages –** Java | Swift | HTML | CSS | Python | C | SQL | PHP

**Technologies –** iOS, Android | MapReduce | MySQL | Mongo

**Tools –** Xcode, IntelliJ, Android Studio, PhpStorm | Heroku | Git

**PROJECTS**

**GoPool (http://bit.ly/1OHbj9h) January 2016**

* Created a scalable carpool ride-sharing web app which enables college students to driver others to a similar destination, facilitating the carpooling and ridesharing process
* Employed MySQL and PHP to create REST API used on iOS app and Google Maps/Places/Geolocation APIs to facilitate destination selection on web side
* Created iOS app, using custom REST API, with Google Maps/Places SDK for iOS

**FancyHotel November 2015**

* Worked in a team of 4 to develop FancyHotel, an online hotel reservation system using Materialize CSS, MySQL, and PHP
* Created MySQL queries for making, updating, and cancelling reservations as well as viewing revenue and reservation reports for admins
* Built front-end for making, updating, and cancelling reservation as well as login using Materialize CSS

**Paylytics (http://bit.ly/1KWQiDy) September 2015**

* Worked in a team of 4 to develop Paylytics, an iOS app performing advanced analytics and optical character recognition using Tesseract-OCR library for iOS on paper receipts to analyze, optimize, and visualize the user’s spending behavior
* Implemented computer vision to scan receipts into custom database via custom REST API and created iOS front-end including budgeting graphs
* Created OneDrive syncing system to automatically upload pictures of receipts to the user’s OneDrive account

**ISS Live Tracker (https://appsto.re/us/5kNG7.i) June 2015**

* Created an iOS/Apple Watch app used to trace the current position of the ISS and predict future sightings based off current location of user
* Gathers current ISS geo-position from custom REST API created via Flask. 4k+ downloads

**iEatOut (http://iEatOut.github.io) - Best use of IBM Bluemix runner-up** **November 2014**

* Web app optimized for mobile platform using Framework7, Bluemix, and Firebase
* Allows users with allergies to find suitable restaurants using Ordr.in and Yummly REST API’s
* Developed REST API using Flask to store menu item information and deployed via Heroku

**ACTIVITIES**

**Activities:** Hackathons, Big Data Club, GIT MAD, ISEF, India Club

**Scholarships:** Project Management Institute Scholarship, Zell Miller Scholarship