

# VARUN S. BALLARI

770-883-8099

[varun.ballari.com](http://varun.ballari.com)

[varun@ballari.com](mailto:varun@ballari.com)

[github.com/Varun-Ballari](https://github.com/Varun-Ballari)

## EDUCATION

**GEORGIA INSTITUTE OF TECHNOLOGY** - ATLANTA, G.A

**AUG 2014 - DEC 2018**

- Bachelors of Computer Science (Info Internetwork & Media) • Overall GPA: 3.9
- Study Abroad in Metz, France (Summer 2016)
- Courses: Data Structures & Algorithms (Java), Computer Systems and Networks (C, ASSEMBLY & Hardware), Data Input/Manipulation (Python), Android Development & Database Technologies (SQL, RDBMS & MongoDB)

## EXPERIENCE

**APPLE** - SUNNYVALE, CA

**JUN 2017 - DEC 2017**

**iOS Field Service Diagnostics Software Engineering Intern**

- Built software to collect & analyze audio in current/future hardware to improve current diagnostic tools & machine learning models
- Rewrote audio diagnostics framework to support current/future hardware
- Worked on iPhone screen diagnostics hardware and software solution by designing a 3D printed hardware prototype and built bi-directional communication software to connect and pass information between iPhones and Mac
- Worked on iOS, Sockets, Secure HTTP Requests, Multi-Threading, USB TCP Protocol, I/O Devices Listeners & Audio Data Manipulation

**HOME DEPOT** - ATLANTA, GA

**JAN 2017 - APR 2017**

**Innovation Center IT R&D Developer**

- Worked on a Natural Language Processing project to integrate Home Depot APIs with Voice Controlled interfaces
- Built a backend server to convert voice requests into search queries and push those to Home Depots Search APIs and return results to users, providing them with verbal responses to non-transactional questions
- Built a client using Actions on Google (API.AI) to communicate inventory searches, in-store product locators, and other details

**INDIA CLUB AT GEORGIA TECH** - ATLANTA, GA

**JUL 2015 - APR 2017**

**Full Stack Web & iOS Developer**

- Built robust Flask APIs to handle event registration & check-ins for our largest events with 1500+ attendees ([tickets.gtindiaclub.com](http://tickets.gtindiaclub.com))
- Integrated QR capabilities with current check-in systems and built an iOS interface for it to manage checkins with our Databases with personalized sessions saving us \$500/year on internet services ([itunes.apple.com/us/app/icgt-scanner/id1221788520](https://itunes.apple.com/us/app/icgt-scanner/id1221788520))
- Designed and built a secure developer portal for event and membership statistics and for development testing

**GT-IOS CLUB** - ATLANTA, GA

**JUL 2016 - APR 2017**

**iOS Instructor & Web Developer**

- Taught 50+ students Swift & iOS development; Helped lead classes on AutoLayout,UIKit (Animations, TableViews, StackViews, etc), CocoaPods, Networking, JSON parsing, Core Location, and Data Persistence, and helped them build their own apps
- Designed and built our website with tutorials and schedule of classes I helped construct/teach ([iosgatech.xyz](http://iosgatech.xyz))
- Won *2nd place* in a college wide iOS App Competition for "WAVES", an iOS Music Steaming App, in 2015 as a student of the club

## PROJECTS **MORE ON GITHUB**

<b>Security System</b>	Built a home surveillance system using Computer Vision for facial/body detection
<b>"WAVES"</b>	iOS Music Steaming app that uses a Raspberry Pi, a Node JS server & Apache to serve music files from Pi to Client iOS App, which streams audio and utilizes caching to save music locally on device ( <a href="https://github.com/Varun-Ballari/Waves">github.com/Varun-Ballari/Waves</a> )
<b>Twitter Data Visualization</b>	Data Visualization Web App that stores Tweets in MongoDB, then searches for tweets in a given location & radius and analyses those tweets to visualize most frequently occurring words. ( <a href="http://twitter-data-visualization.herokuapp.com">twitter-data-visualization.herokuapp.com</a> )
<b>"Clean Waters"</b>	Worked on a team of 5 to build a Water Purity Maps Android & iOS App that utilized location services, user authentication, and cross-app functionality to preserve consistently between devices ( <a href="http://varun.ballari.com/projects">varun.ballari.com/projects</a> )
<b>"ATLAS"</b>	iOS Transit App that uses Google Maps and metro-Atlanta's rail system's real-time API to get location train arrival/ departure times and locations; Working on Uber/Lyft integration for Last-Mile feature ( <a href="https://github.com/Varun-Ballari/Atlas">github.com/Varun-Ballari/Atlas</a> )