

Barath Tirumala

Web: btirumala.com

Github: [btirumala1219](https://github.com/btirumala1219)

Email : barath.tirumala@gmail.com

Mobile : 954-326-0582

EDUCATION

- **University of Central Florida** Orlando, FL
 - *Major: Computer Science BS; Minor: Business Administration* *Aug. 2016 – May 2020*
 - **Awards/Honors:** President's Honor Roll, Dean's List

PROGRAMMING SKILLS

Proficient: C, Java, JavaScript, Python, HTML/CSS, R, Git, SQL

Familiar: Haskell, C#, C++

Libraries/Frameworks/Tools: NodeJS, React, JavaFX, jQuery, AngularJS

EXPERIENCE

- **Mitre Corporation** Orlando, FL
 - *Simulation Systems Intern* *Feb 2018 - Present*
 - **Web Application:** Contributed to and maintained web application with HTML/CSS/JS and jQuery. Was responsible for implementing bug fixes and enhancements. Also worked to analyze user data/inputs to further contribute towards productivity.
 - **Workflow:** Saved hours of time, and contributed to overall efficiency of the workplace by setting up multiple pipeline scripts to automate testing and deployment of our code.
 - **Simulation Video Game:** Developed on virtual simulation gaming platform to create scenarios, environments, and story-lines for users to play through.
- **Chegg** online
 - *Tutor* *May 2017 - Aug 2017*
 - **C Programming:** Assisted students at the college level with C Programming lessons and homework for 10 hours a week. Areas of assistance often included data structures & algorithms.
 - **Calculus:** Tutored high school students in Calculus I and II concepts for 5 hours a week. Often provided students with rigorous lessons to make sure they understand the material.
- **360Fly** Sunrise, FL
 - *Software Engineering Intern* *Mar 2016 - May 2016*
 - **360 Camera:** Assisted in writing firmware for 360 video cameras needed to be compatible with multiple operating systems and environments. Also learned valuable lessons regarding the overall design and development process of a product.

PROJECTS

- **Ball Count:** Android application made with React Native to keep track of basketball shooting percentages. This data is recorded from practice to practice and is further analyzed to identify areas of concern or areas of needed improvement. App is available in Google Play
- **Personalized Assistant:** Desktop application that serves as an assistant. User is capable of communicating with interface to interact and schedule daily tasks. This then communicates with Node.JS implemented server to pass information back and forth from user. GUI was written using python's tkinter library to properly transfer over devices with relative ease.
- **PL/0 Language Compiler:** Fully functional compiler that creates a lexeme list, parses that list and generates op code. This code is then run on a virtual machine, mimicking the standard compilation process.
- **Additional projects can be found at github.com/btirumala1219:**

EXTRACURRICULAR

- **UCF Programming Team/ Hack UCF:** Participating in 2019 Hackathon as well as weekly team practice
- **UCF Indian Student Association:** Served as key volunteer for cultural events
- **UCF Knightmare Bhangra:** Vice President of Bhangra Dance Team
- **Volunteering:** Taught basic English to underprivileged kids in India, near my hometown, over Summer 2016