

Barath Tirumala

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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
 - **Current Position:** Intern - Mitre Corporation

PROGRAMMING SKILLS

Proficient: Java, JavaScript, Python, SQL

Familiar: Haskell, C#, C

Libraries/Frameworks/Tools: NodeJS, React, JavaFX, jQuery, Unity, Selenium, Mocha

EXPERIENCE

- **Goldman Sachs** New York, NY
Summer Tech Analyst *May 2019 - August 2019*
 - **Network Automation:** Developed Driver in NodeJS to automate Check Point Firewall Configuration through IaaS. System cuts firewall configuration time from weeks to 10 minutes. Extensive Terraform-like Provider calculates minimal changes needed and implements through REST endpoints. Minimizes human interaction needed and mitigates human-exposed risk associated.
 - **Stress Testing:** Performed detailed analysis and optimization over extensive scale tests to measure and adapt automation procedures. Measured and scaled to accommodate firewall policies of as large as 70,000 objects.
 - **Parallel Processing:** Experimented with splitting automation procedure load over multiple infrastructure instances in parallel to optimize performance. Dealt with various load balancing strategies.
- **Ultimate Software** Weston, FL
Simulation Systems Intern *Jan 2019 - May 2019*
 - **Web Application:** Developed Full-Stack Application that supported managerial salary planning capabilities. Worked in C# and JS with a SQL Server database
 - **Test Automation:** Working on Internal testing framework. Writing and developing methods and techniques to speed up testing software and effectively convey results
- **Mitre Corporation** Orlando, FL
Simulation Systems Intern *Feb 2018 - Nov 2018*
 - **Web Application:** Contributed to and maintained web application with HTML/CSS/JS and jQuery. Implemented bug fixes and overall performance enhancements. Worked to analyze user data/inputs to prioritize task lists.
 - **Workflow:** Set up multiple pipeline scripts to automate testing and deployment of our code. This saved hours of time, and contributed to overall efficiency of the workplace
 - **Simulation Video Game:** Developed on virtual simulation gaming platform to create scenarios, environments, and story-lines for users to play through.

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.
- **Personalized Assistant:** Desktop application that serves as an assistant. User is capable of communicating with interface to interact and schedule daily tasks.
- **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.

EXTRACURRICULAR

- **UCF Indian Student Association:** Served as key volunteer for cultural events
- **UCF Nightmare Bhangra:** Vice President of Bhangra Dance Team
- **Volunteering:** Taught basic English to underprivileged kids in India, near my hometown, over Summer 2016