Phalguna Rupanagudi

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Master of Science in Computer Science   *Aug 2019 - Dec 2020*

Florida State University   Tallahassee, FL
Bachelor of Science in Computer Science with Honors; GPA: 3.95   *Aug 2014 - May 2018*

Honors Thesis: Inter-Procedural Global Variable Data Dependence Detection

EXPERIENCE

Verizon Connect   Atlanta, GA
Software Engineering Intern   *June 2019 - Aug 2019*

- **IoT**: Improved communication latency between IoT device and web application from 60 seconds to 3 seconds by replacing the messaging protocol.
- **Device and Backend**: Implemented an application in the IoT device using C and implemented the back-end with the Java Spring Boot framework. The POC was implemented on a device with over a million active users.

Cellink   Blacksburg, Va
Software Engineering Intern   *Sept 2018 - Dec 2018*

- **3D Bio-Printer Test Automation**: Developed an application to automate print quality testing and calibration testing on 3D Bio-printers. Using the application, QA testers were able to save 30 minutes of testing time per device.
- **C++ & QT5**: Used C++ with the QT framework for the user interface embedded into the Raspberry Pi in the printers.

Chalmers University of Technology   Gothenburg, Sweden
Research Intern   *May 2018 - July 2018*

- **C & Python**: Developed a module for C compiler to collect data about memory accesses of input programs.
- **NSF Grant**: Fully funded through a National Science Foundation grant.

Florida State University   Tallahassee, FL
Research Assistant   *May 2017 - May 2018*

- **C/C++ Development**: Implemented a module in the back end of a C compiler to test for function level parallelism.
- **Honor's Work**: Successfully defended a Undergraduate honors thesis based on the research work.

Florida State University   Tallahassee, FL
Teaching Assistant   *Aug 2017 - Dec 2017*

- **Grader**: Graded homework assignments for 100 students and held office hours to assist with entry level programming assignments.

PROJECTS

Contact Exchange Mobile App: Developing a mobile application to simplify the exchanging of contact information. Development done with React-Native and Firebase.

Bit-Torrent Client: Developed a bit torrent client following proper protocol using Java.

- **Socket Programming**: Implemented the multi-threaded application with Java socket libraries.
- **Low Latency**: Client is able to share a 1GB file with several clients on the torrent within one minute.

Caravan-Android App: Collaborated with friends to create an app for communication between multiple car travel. The development was done in Android-Studio and connected with a Firebase backend.

TECHNICAL SKILLS

Languages:	C/C++, Python, Java, SQL, JavaScript
Frameworks:	React-Native,QT,Flask,MQTT, Firebase,MongoDB
Tools:	Android Studio,GIT,Visual Studio,XCode