**Work Master List**

**PROFESSIONAL EXPERIENCE**

**Datapath Inc., Duluth, GA, USA**

*Software Engineer Intern May 2018 – August 2018*

* Created automated text message notification system for Datapath’s MaxView software
* Designed functional admin web pages for configuring client’s database
* Wrote programs to interface with satellite hardware, utilizing interface control documents
* For the first one, I leveraged existing email capability in automation service for maxview. I refactored the email feature into its own service to decouple the features, to offer more maintainability down the line. I introduced a circular dependency, oops, where Automation depended on Email and Email depended on Automations User Service. I then utilized a feature that most telecommunication providers offer, which is email to sms. By emailing to a certain address like [555-555-5555@tmobile.com](mailto:555-555-5555@tmobile.com) I was able to send an sms message to 555-555-5555. The next problem was to allow for a system administrator to update the database for providers and their respective email domains. I created a web page that would only be accessible by admins where they can update the domains for each cellphone provider. I used javascript to call query and update the host server that hosts the database. Finally, I added an option for end clients to select which provider they are with to complete the feature. The service could now be used to automatically send sms and email, to the necessary engineers for when say a sensor reads too hot.

**Georgia Institute of Technology, Atlanta, GA, USA**

*Research Assistant | Center for 21st Century Universities November 2017 – April 2018*

• Collaborated with Deloitte’s data science team to aggregate strategic plans and budgets for 600+ public universities across the U.S. and find trends in current and future university plans in respect to funding from state governments

• Created Python program to automatically pull search results of spread sheet items to optimize time spent in initial data gathering phase

• Facilitated speedier and less error prone analysis of data by writing Python/Batch scripts to convert pdf files to plain text

**Barista at Top Cloud**

**Research Assistant at Center for Advanced Brain Imaging**

Talk about the project I was working on , about a grammar and left and right and trying to detect if there is a similar brain activity that we have with words as we do with physical movement and if our body’s will pick up that “language”

Interesting situation where it was important to know the domain I was working in, with testing for independence and how the sequence of things really mattered. And the constraints required.

**Center for Advanced Brain Imaging Atlanta, GA**

*Research Assistant October 2018 – Present*

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**ReLeaf | Junior Design Project** *August 2018 - Present*

• Selected to build Android app that promotes environmentally friendly habits for Jones Sustainable Solutions

• Employed gamification techniques to encourage users to participate in daily challenges

• Worked directly with client to ensure vision is captured and challenges were met with appropriate solutions

• Built with Android Studio; deployed on Amazon Web Services to ensure ease of scalability

One of the challenges was that Joulebug existed and we needed a differentiator as our client’s original pitch matched very closely to joulebug’s. We worked directly with our client to come up with a new idea that was consistent with his original vision yet distinct from joule bug. We settled on a gamification scheme where the user earns points towards customizing his in game haven. This ended up being effective because users liked working towards mini concrete goals and being able to personalize their space.