jdela1740@gmail.com

**EMPLOYMENT** 

# Software Engineering Intern Google Summer 2019

Ads DBM Team

- Designed and developed an algorithm that utilizes dynamic programming and window sliding to select the highest scoring segments of a video, given a list of allowed preview durations.
- Setup video processing system that runs all possible steps in parallel to handle data dependencies without blocking threads.
- Setup indexer to be able to load library assets on data changes, and setup two-way link with ad creatives so we can query in the REST API.

# Software Engineering Intern

Google

**Summer 2018** 

Search UGC Team

- Decreased software development time, and unified the Google search codebase by designing and developing an intuitive and standardized Sentiments component framework for code reusability, along with in-depth documentation for developers. All logic is handled including: UI changes on selection, and maximum selection handling.
- Improved software quality by adding unit tests and graceful error-handling which would have otherwise been optionally added by developers.

### **Software Engineering Intern**

Google

**Summer 2017** 

Geo Schema Team

- Improved web page load time by 60.87% by upgrading to Angular 2, breaking the web application into components, and expunging and repairing unutilized/inoperative features.
- Improved software reliability by improving the UI, which prevented invalid data and introducing front-end tests which discovered software bugs that went unnoticed.
- Introduced impact statistics for Geo Data modifications, allowing for more sensible Geo Data related decisions.

## Software Engineer, Intern

FP&L/NextEra Energy

Summer 2016

Smart Grid Team

- Improved data retrieval speed and data accuracy by implementing Ray Casting algorithm to filter out irrelevant geolocations in the back-end.
- Recommended and implemented data visualization improvements to award-winning Smart Grid web application.

#### **Software Engineer, Intern**

Julie Braun Inc.

Spring 2016

Front-End Team

- Improved web page load time by 64% by introducing/implementing optimization methods & refactoring code.
- Improved website mobile-friendliness amongst all web pages by introducing/implementing proper mobile-friendly practices and technologies.

### **E**DUCATION

### Miami, Florida

Florida International University (FIU)

Fall 2016 – Present

Expect to graduate in December 2019.

## **Competitive Programmer**

**FIU Programming Team** 

University Team Member(varsity - paid member)

• Compete against universities in collegiate programming contests, utilizing data structures and algorithms.

### **Projects**

Created a Packet Sniffer (Fall 2015)

-Ethical Hacking Tool; network utility program that reads network packets.

**Recently Used Skills:** Web application architecture, Software Engineering, Algorithms, C++, Java, Drishti media processing framework, Producer API, Multithreaded systems, Angular, React, MongoDB, SQL, Software systems design, Object-Oriented patterns, MVC patterns, General software design patterns, Spanish/English Fluent.