# amantha Barrera

#### MATHEMATICS AND COMPUTER SCIENCE STUDENT SEEKING INTERNSHIP

#### Education

#### **University of Illinois at Urbana-Champaign**

**B.S. IN MATHEMATICS AND COMPUTER SCIENCE** 

Jan 2017 - Exp. May 2020 Urbana-Champaign, IL

Computer Science Coursework:

Data Structures • Computer Architecture • Interactive Computer Graphics • Discrete Structures • Software Design Studio • Introduction to Computer Science

Mathematics Coursework:

Applied Linear Algebra • Calculus I - III • Fundamental Mathematics

## Work Experience

**Capital One** May 2018 - Aug 2018 SOFTWARE ENGINEER INTERN

Champaign, IL

- Worked under Capital One's Purple Rain division Capital One's big data warehouse for their cyber machine learner division.
- Containerized Purple Rain's data streaming applications using Docker, Kubernetes, Minikube, and Ansible onto their
- Familiarized myself with Kafka, Zookeeper, and Spark these were the applications that Purple Rain needed to be containerized.

**Engineering IT** Aug 2017 - Dec 2017 STUDENT CONSULTANT Urbana-Champaign, IL

- Helped consult and fix IT issues within University of Illinois' College of Engineering.
- Some daily tasks included re-imaging computers, setting up and configuring WiFi, fixing and refilling printers, and renting out laptops and cables for university staff members and students.
- Recorded in-person lectures for online use for the College of Engineering.

## Projects and Extracurriculars \_\_\_\_\_\_

Friendule May 2018 - Aug 2018

HTTPS://GITHUB.COM/SLBARRERA/FRIENDULE

- An iOS application that allows you to easily plan outings with your friends and family by syncing schedules.
- Friendule takes into account everyone's schedule by looking at conflicts and preferred hangout times and then finds the perfect time for everyone to get together.

**Game Builders** Aug 2017 - Present Urbana-Champaign, IL **MEMBER** 

- Collaborate with other students who are interested in game design and development.
- Compare and work on projects together in and outside of meetings.
- Work through various tutorials together to better video game development and design skills.

### Skills and Interests

**Proficient** Java • C++ • Python

Familiar HTML/CSS • Swift • Assembly • JavaScript

Android Development • iOS Development • Git • SQL • Google Firebase • AWS • Docker • **Tools and Technologies** 

Ansible • Kubernetes • Minikube • Kafka • Zookeeper • Spark

Other Complete Microsoft Suite • Graphic Design • Video Editing • Customer Service

**Interests** Video Games • Theatre • Cooking • Food • Music • Traveling