

# Josue David Arana

INTERN

☎ (202)550-4245 | ✉ jarana7@umd.edu | 🏠 Mt. Rainier, MD | 🌐 josue-arana | in josue-arana | www.josuearana.com

## Education

### University of Maryland

JUNIOR YEAR IN COMPUTER SCIENCE, GPA: 3.3/4.0

- **National Society of Leadership and Success**, NSLS — *Member*

College Park, MD

Jan 2018 - May 2021

### Montgomery College

ASSOCIATE OF ARTS, COMPUTER SCIENCE MAJOR

- **Phi Theta Kappa Honor Society** — *Member*
- **Software Development Club** — *Member*

Rockville, MD

2015 - 2017

## Skills

<b>Development</b>	Java, Python, C++, C, OCaml, HTML5.
<b>Framework</b>	React, Git Version Control.
<b>Software</b>	Photoshop, Illustrator, In-Design, Premiere Pro, Dreamweaver.
<b>Languages</b>	English, Spanish, Portuguese.

## Projects

### A Simple Shell (C)

May 2019

- A command line interface based on the Unix Bash shell.
- Supports boolean operations, pipes, and file redirection.

### Small-C Interpreter (OCaml)

Nov. 2019

- Implemented a lexer, parser and evaluation to create a Small-C.
- Given an input string it allows the user to recognize and run expressions and/or statements such as if statements, for loops and while loops corresponding to the input.

### Rocket Game (Java)

Oct. 2019

- Developed a 2D game of a rocket traveling in space. Written in Java using Processing.
- The goal of the game is to survive the asteroid storm and not run out of lives. Also, did a modified funny version of the game.

### Regular Expression Engine (Ocaml)

Sep. 2019

- Implemented algorithms to work with NFAs, DFAs, and regular expressions.
- Handles conversions from NFA to DFA, and regular expressions to NFA.

### React Search/Filter Application (JavaScript)

Dec. 2019

- Application implemented using React components, state, JSX and array functions.

### The Matrix Zone (Java)

Nov. 2019

- Implemented a simulation of the movie The Matrix using a capture and live video in Processing.

### Artwork Website (HTML/CSS/JS)

Mar. 2020

- Created my own portfolio website using bootstrap. — [www.josuearana.com](http://www.josuearana.com)

## Experience

### Specialist and Supervisor

Brentwood, DC

NATIONAL CHARITY SERVICES

Nov. 2013 - Aug. 2019

- Managing a small group, problem solving, scheduling, weekly reports.
- Handle vehicle donations for several major national charities.
- Training new employees to provide excellent customer service and phone etiquette.