

# Bruce Luo

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## EDUCATION

**UNIVERSITY OF TEXAS**  
BS COMPUTER SCIENCE AND  
MATHEMATICS  
2018 - present | Austin, TX  
Expected Dec 2021  
GPA: 4.0

## LINKS

github.com/Feezy15  
linkedin.com/in/b-luo

## COURSEWORK

### FALL 2018

CS 314: Data Structures  
CS 311: Discrete Math

### SPRING 2019

CS 429: Computer Architecture  
CS 104c: Competitive Programming  
CS 109: Python Programming  
SDS 321: Statistics and Probability  
M 340L: Linear Algebra

### FALL 2019 (ENROLLED)

CS 439: Operating Systems  
M 427L: Vector Calculus  
M 358K: Applied Statistics

## SKILLS

### LANGUAGES

Java, Python, JavaScript, HTML/CSS, C,  
x86, SQL, Lisp, R

### TOOLS

Unity, jQuery, Bootstrap, SQLite3,  
Linux, gdb, node.js, git, ggplot2

## PROJECTS

### COLORSEEK

- Created a website using Bootstrap grid to find optimized color palettes for uploaded images
- Built JavaScript classes encapsulating functions required for two different color quantization algorithms (histogram and k-means)
- Handled inputs using jQuery selectors and wrapper functions to run algorithms
- Designed a class to dynamically manipulate the web page DOM and output a table with entries for each color in the palette
- Built on ES6 module system and remote deployable through Express

### ASCENT

- Created a vertical scrolling, procedurally generated 2D platformer using Unity for the EGaDs 2018 Fall Game Jam
- Developed a variety of prefabs for use as platforms and tweaked game physics interactions using RigidBody2D
- Designed different Unity scenes for the game UI (e.g. title screen, pause menu, end screen)

### RANDOM WRITER

- Created an app that trains on an iterable input or data extracted from URL through requests library
- Implemented graph class to model a Markov Chain used for outputting a stream of similar yet randomly generated data
- Model serializable using the Python pickle module

## EXPERIENCE

### MR. JAN'S MATH CLASS | TUTOR

Jan 2018 - June 2018 | Katy, TX

- Led small group sessions of between 8 - 12 students
- Answered questions over in-class content, homework, and upcoming quizzes/tests
- Tracked individual student progress over the semester
- Identified student weaknesses and tailored extra practice worksheets
- Aided in achieving 100% pass rate

## AWARDS

2018 National Merit Finalist  
2017 National AP Scholar