

# Michael S. Kilani

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## EDUCATION

**Vanderbilt University**, Nashville, TN

**May 2019**

Bachelor of Engineering, Computer Science; Minor: Mathematics  
GPA: 3.23

## RELEVANT COURSEWORK

Intermediate Software Design in C++, Algorithms, Operating Systems, Programming Languages, Data Structures, Discrete Structures, Computer Organization, Programming and Problem Solving in Java, Digital Logic, Computers and Ethics, Multivariable Calculus, Methods of Linear Algebra, Differential Equations, Probability and Statistics for Engineers

## LANGUAGES AND SKILLS

**Languages:** C, C++, Java, JavaScript (p5.js Framework), Racket, Prolog, Python, Rust, Ruby, CSS, HTML

**Skills:** Spanish (Conversational), Git, GitHub, Linux, Microsoft Excel, Creo CAD

## EXTRACURRICULAR ACTIVITIES

**Wayfair, Boston, MA**, *Software Development Intern*

**June 2018 – August 2018**

**VandyApps, Nashville, TN**, *Member*

**September 2016 – Present**

- Programmed web applications such as countdown timers, and Pong-like games in HTML and JavaScript that utilized game physics mechanics, basic library usage, and other relevant coding practices
- Utilized the p5.js framework to develop a graphing tool which accepts user input functions, parses the equation, and calculates x and y values to create and display the graph
- Constructed a two-dimensional array data structure using JavaScript object-oriented programming
- Designed a personal website hosted through Github Pages to showcase current and completed projects

**Vanderbilt Student Volunteers for Science, Nashville, TN**, *Team Leader*

**September 2015 – Present**

- Orchestrated science lessons and guided a class of over 30 middle school students through interactive projects
- Executed team meetings and instructed four team members on roles and responsibilities for the lesson each week
- Coordinated directly with schoolteachers to ensure proper setup and execution for each session

**Phi Gamma Delta, Nashville, TN**, *Risk Manager*

**January 2017 – Present**

- Developed and implemented a living document of the chapter's Risk and Crisis Management Program in close coordination with the Regional Secretary and Chapter President
- Organized and conducted educational seminars presented to the chapter every semester covering safety procedures and emergency protocol in events of immediate threats to health and personal well-being

## EXPERIENCES

**MLH Local Hack Day, Nashville, TN**, *Participant*

**December 2017**

- Brainstormed, developed, and presented a JavaScript maze generator web application from start to finish in 12 hours while competing against over 50 teams from across the country
- Utilized the p5.js framework to implement a recursive backtracker algorithm that procedurally generates a random maze
- Features user interaction that allows players to manually solve the maze once it has been generated

**Vanderbilt Production Services, Nashville, TN**, *Audio and Visual Technician*

**September 2017 – Present**

- First-hand experience installing and maintaining different soundboards, lighting consoles, microphones, stage lights, computer systems, and all associated wiring needed to bring a production to fruition
- Constant collaboration with managers and production directors to ensure all lighting and sound needs are met for events ranging from lectures by high profile guests to cultural dance and music productions

**Parker School Uniforms, Houston, TX**, *Sales Associate*

**May 2014 – August 2017**

- Worked directly with customers to assess individual needs and provide quality customer service
- Collaborated with managers and corporate representatives to facilitate the implementation of a new computer system aimed at a seamless customer experience both online and in store

**NASA High School Aerospace Scholars, Houston, TX**, *Student*

**June 2014**

- Participated in a highly selective program at the Johnson Space Center in which teams of 10 students across the state of Texas had 5 days to plan a mock voyage to Mars
- Presented findings to a panel of NASA officials working on the Orion Journey to Mars that included flight specifications, landing requirements, and basic thrust calculations