

Michael S. Kilani

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EDUCATION

Vanderbilt University, Nashville, TN
Bachelor of Engineering, Computer Science
Minor: Mathematics
GPA: 3.21

May 2019

RELEVANT COURSEWORK

Intermediate Software Design in C++, Data Structures, Discrete Structures, Computer Organization, Programming and Problem Solving in Java, Digital Logic, Computers and Ethics, Fundamentals of Management, Multivariable Calculus, Methods of Linear Algebra, Differential Equations, Probability and Statistics for Engineers, Mechanical Engineering Design in Creo CAD Works

EXTRACURRICULAR ACTIVITIES

VandyApps, Nashville, TN, *Member*

September 2016 – Present

- Programmed 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
- Master 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 the graph
- Constructed a two-dimensional array data structure using JavaScript object-oriented programming

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

September 2015 – Present

- Orchestrate science lessons and guide a class of over 30 middle school students through interactive projects
- Execute team meetings and instruct four team members on roles and responsibilities for the lesson each week
- Coordinate directly with schoolteachers to ensure proper setup and execution for each session

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

January 2017 – Present

- Develop and implement a living document of the chapter's Risk and Crisis Management Program in close coordination with the Regional Secretary and Chapter President
- Organize and conduct 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

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

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

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

VOLUNTEER WORK

Camp Blessing, Houston, TX, *Counselor*

July 2014

- Mentored a camper with Down's syndrome for a seven-day period, establishing a personal friendship while overseeing the camper's morning and nightly routines

Colonial Oaks Assisted Living, Houston, TX, *Volunteer*

June 2013 – July 2014

- Assisted with the daily living of over 30 residents with Alzheimer's and dementia through meal preparation, bathroom assistance, and leisure activities

SKILLS

Programs: C++, Java, JavaScript (p5.js Framework), Python, HTML, Microsoft Excel, Creo CAD
Languages: Spanish (Conversational)