**KEVIN SILVERA**

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## OBJECTIVE

Recent Computer Science graduate looking to start a career in software development, offering systematic and logical thinking to solve problems while generating innovative ideas. Looking to gain industry experience and share my passion for technology.

## EDUCATION

Bachelor of Science in Computer Science,
George Mason University, Fairfax, VA

## RELATED COURSE WORK

- Object Oriented Programming
- Discrete Mathematics
- Low Level Programming
- Introduction to Computer Programming
- Formal Methods and Models
- Computer Systems Architecture
- Concurrent & Distributed Systems
- Lang Process & Program Environment
- Autonomous Robotics

Data Structures
Computer Science Ethics
Analytic Geometry and Calculus
Software Requirements and Design Modeling
Computer Systems and Programming
Analysis of Algorithms
Operating Systems
Security Engineering
Web App Development

## COMPUTER SKILLS

Applications:           Microsoft Office Suite, Github, Google Business Suite
Operating Systems:      Windows XP, 2000, Vista, 7, 8, 10, UNIX, Macintosh, Linux

## PROGRAMMING LANGUAGES

Languages:              Java, C, Python, JUnit, Javascript, C++
Databases:              Familiar with SQL, NoSQL, Firebase, JSON
Web-based:              HTML, CSS, NodeJS, React, Event-oriented programming
Software programming:   Devops, User-centered design, prototyping, Maven

## PROGRAMMING PROJECTS

Object Oriented:        -Designed and created a Chess game in Java where the user can face an AI or other user that implemented a sparse matrix and user interfaces.
-Developed a Java application that will allow users to list and tag their files. This application was built so that multiple users can interact with it simultaneously without corrupting any of the internal components.
-Developed another Java application that allows users to list and tag their files but this time using RMI and locks in a client-server environment.
-Created a consistent, fault-tolerant distributed key/value store using Zookeeper.

Database Design:    -Created a front end application that displays user choices to obtain or write data from a simulated disk that goes to the middle application that grabs the disk data using hashing and returns that data from the disk to the application.
-Developed a Document based application, in Java, where the user is able to manipulate text within a document and write to a text file.

Programming:    -Created a calculator that was able to graph any function that a user submitted in the C programming language.
-Developed a set calculator in C that performed set operations using Linked Lists and memory allocation.
-Using a simulated environment, I was able to develop three bug algorithms that would locate if there is an obstacle ahead and handle the movement of where to go to reach the goal location.
-Created a path planning algorithm that can be implemented into a robot to locate all the possible pathways to the goal. Once the optimized path has been found, this path will be saved into the cache so if needed again can be brought back and cleaned up if any obstructions are found.

Web App:    -Developed a picture generator that would select a comedic photo and allows the user to input any text they would want on that photo. Was built through the backend using Firebase to handle the picture generation then handle all HTTP requests to connect the backend to the frontend. Lastly used CSS and React to create a frontend that provided the user with all the necessary tools to get their desired output.

## WORK HISTORY

**Instructor, Stem Excel, 4010 University Dr #104, Fairfax, VA, August 2017 – Present**
- Guide and mentor Elementary-age students to obtain a foundation in technology so they may excel in STEM topics.
- Coordinate an effective plan with other instructors on how to organize lessons that the children can easily understand.
- Learned how to convey complicated advanced material in a more simplistic manner for the children to grasp that information.

**Server, Sunrise Senior Living, Fort Belvoir, VA, May 2014 – Jan 2015**
- Provide exceptional service to the elderly.
- Work with other teammates to coordinate an effective plan on how to organize service to be delivered in a timely manner.
- Gained experience on how to communicate with the elderly and other teammates to deliver the best experience and service.

## OTHER INFORMATION
Mentored other students to advance their skills on programming and mathematics