

# Alexander Paul Szelestey

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**Objective:** I am a passionate programmer with a knack for design. I am ready to share my expertise from the United States Marine Corps in a civilian role that allows me to grow and learn in a dynamic, exciting, innovative workplace.

## Skills

- C/C++, Java, JavaScript, CSS, HTML, Java OpenGL, WebGL, three.js, PowerShell, MySQL, jQuery, Bootstrap, node.js
- Eclipse, IntelliJ, GitHub, Slack, SDLC concepts, and AGILE workflow.
- Troubleshooting and building computers/servers.
- Strong leadership, management, adaptability, self-sufficient, and critical thinking skills.

## Career Profile

Computer Science major with 3+ years of experience with various programming languages. In college, I excelled in Java, C, C++, HTML/CSS, and JavaScript; by taking classes that focused on designing computer algorithms, object-oriented concurrent programming, and creating fully functional websites. I have also held a Secret Security Clearance as a fully qualified aircraft mechanic in the United States Marine Corps.

## Education

**University of Maryland Global Campus,**

**January 2016- May 2020**

Bachelor of Science, Major in Computer Science, Minor in Cybersecurity

Graduated Cum Laude (3.89 GPA)

Relevant Coursework:

- Studying object-oriented and concurrent programming in Java.
- Designing and analyzing computer algorithms with Big-O estimates.
- Rendering graphic images and animating 2D and 3D objects with Java, JOGL, three.js and WebGL.
- Full stack web development - Analyze, design, develop, test, and document a fully functional website as a team with SDLC concepts.

## Awards and Achievements

Awarded the Navy & Marine Corps Achievement Medal, Marine Corps Good Conduct Medal, National Defense Service Medal, Global War on Terrorism Service Medal, Sea Service Deployment Ribbon, Certificate of Commendation, and two Letters of Appreciation.

## Military Service

**United States Marine Corps,**

**January 2012- January 2020**

Honorably Discharged as a Sergeant (E-5). I served 5 years Active Duty holding a Secret Security Clearance and 3 years in the Reserves. I have been all over the world fixing and flying on the CH53E Super Stallion Helicopter. As a fully qualified Aircraft Mechanic and Aircrew, it was my duty to troubleshoot complex systems and mentor junior Marines.

## Projects

### C

Meteorological Data – March 2018

- Input and store up to 5 years of data into an array
- Calculate average rainfall for each year

### C++

An Expression Interpreter – October 2019

- Processing multiple arithmetic expressions from a text file

### Java

Sea Port – December 2019

- Multithreading concurrency to the movement of hypothetical ships
- Moving ships into port when required workers are available
- Synchronization to avoid race conditions
- Each job holds a required synchronization locks for a short period

Bubble Sort – May 2020

- Benchmark the recursive and iteration function using bubble sort algorithm
- Identify number of critical operations and time in nanoseconds
- JVM warm-up, Big-O analysis, analyze coefficient of variance

Java 2D Graphics – January 2020

- Rotate, scale, and translate images across the screen

Java OpenGL (JOGL) 3D Scene – February 2020

- Graphic components using transformation methods

### JavaScript

Three.js – 3D Deadlift animation – February 2020

- Radiobutton that loads or unloads the bar
- 360-degree view of animation and lighting effects

WebGL – 3D Soccer Player – March 2020

- Animation of soccer player kicking various items of the users choosing
- Scene includes lighting, textures, frame buffers, and multiple objects

### Full Stack Web Development

Hotel Management Services – May 2020

- Front-end: HTML/CSS, JavaScript, and Bootstrap
- Backend: node.js and express.js as a framework
- Database: MySQL
- 5-person team utilizing SDLC, waterfall model
- GitHub, Slack, IntelliJ