


# Dylan Alexander

## Software Engineer

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 [GitHub](#)

 [LinkedIn](#)

### Profile

I am a driven developer with a proven track record of delivering optimized software products through automation, innovation, & creativity. I am passionate about piecing together inventive solutions to solve real-world problems.

Reference Letters can be provided upon request.

### Education

**BACHELOR OF SCIENCE -**  
**Double Major in Computer Science and**  
**Physics, Minor in Mathematics**

Kennesaw State University

Junior, 2019 – 2023

Current GPA: 3.73/4.0

### Experience

**Mar 2021 – Present** | **R&D Software Engineer** | [Carter + Clark](#) | Duluth, GA

- Researched and assembled new algorithms that facilitated the autonomous construction of individual Lots, House Plans, and Area Calculations for specific [Permit Drawings](#) within a plat. (Each drawing required a spatially accurate depiction of Drainage, Utility, & Erosion Control Lines)
- Programmatically manipulated drawing-entities in a 3D environment by using the AutoCAD .NET API and maintaining an Object-Oriented Design Protocol for a Procedural codebase.
- Rigorously maintained & improved CI/CD pipelines to ensure effectiveness of version control amongst a small group of developers by implementing Unit Tests & standard protocols for individual contribution.
- Aided in the optimization of internal API Endpoints that fed into our Extension Application.

**Jun 2020 – Mar 2021** | **Full Stack Developer** | [ManDeo Consultancy](#) | Atlanta, GA

As part of a team of 3 developers, we created digital footprints for small to large size companies by:

- Developing the Frontend & Backend for Clientele's Web App's using Bootstrap, jQuery & AJAX.
- Creating, integrating, and managing Online Stores for multiple businesses using Square & Shopify.
- Constantly communicating with business executives & owners to solidify project requirements/timelines and continuously improve online presence.
- Using Google Ad Sense, Facebook Pixel, and SEM Rush to dramatically improve the Search Engine Ranking of several businesses.
- Creating bespoke icons, Ad Copy, and Email Marketing Templates with Adobe Illustrator and Photoshop.

**Jun 2018 – Jun 2020** | **GIS Analyst & Engineer** | [173<sup>rd</sup> Infantry Brigade](#) | Vicenza, Italy

- Contributed to building the Frontend for a dynamic, tracking-based web application that leveraged the use of tailored Geodatabases to instantly update the location of entities.
- Used Geopandas, ArcPy, and other related GIS-Scripting Python modules to maintain and manipulate large Geospatial datasets that fed into dynamic applications.
- Constructed a variety of GIS and imagery related products tailored to the needs of Combat Leaders in a tactical environment.

### Skills & Interests

**Certifications:** AWS Cloud Practitioner (03/2021), [GEOINT Professional](#) (11/2020)

**Languages:** C#, Python, C++, JavaScript, SQL      **Frameworks & Tools:** Git, AutoCAD .NET API, Pandas, NumPy, Django & Flask

**Passions:** Artificial Intelligence, Mathematics, Guitar, Spanish, Photography, Fitness