


Dylan Alexander

Software Engineer

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 [GitHub](#)

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Profile

I am a driven engineer with 3+ years of experience & a proven track record of delivering optimized software products through innovation and creativity. I am passionate about piecing together inventive solutions to solve real-world problems & collaborating with dedicated individuals. Reference Letters can be provided upon request.

Education

[Bachelor of Science -](#)
[Major in Computer Science,](#)
[Concentration in Artificial Intelligence,](#)
[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 optimized 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-objects 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.
- Supported open-source contributions to the AutoCAD Extensions community by clarifying documentation in forum blog posts and providing example code snippets for new functionalities & algorithms.
- Aided in the optimization of internal API Endpoint latency that fed into our Extension Application by partitioning payloads.

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

As part of a team of 3 developers, I played a role in creating 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 improve the Search Engine Ranking of several businesses.

Jun 2018 – Jun 2020 | **[GIS Analyst & Engineer](#)** | [173rd 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.
- Utilized Geopandas, ArcPy, and other related GIS-Scripting Python packages to maintain and manipulate large Geospatial datasets that fed into dynamically updating 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