


Dylan Alexander

Software Engineer

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 [GitHub](#)

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Profile

Experienced & driven engineer specializing in NLP with a proven track record of bridging the gap between cutting edge research tools and high-performance enterprise applications.

Education

Kennesaw State University 2020 – 2023
Computer Science, Concentration AI & ML

Experience

April 2022 – Present | **R&D-Incubation Software Engineer** | [NICE Ltd.](#) | *Dunwoody, GA*

- **Overview:** Lead developer of an enterprise-level Conversational Analytics application – a gRPC microservice. Serving as a key role in architectural strategy, actively leading code contributions, & managing corresponding CI/CD pipelines.
- **Productization of Research Tools:** Excelled in transforming NLP researcher tooling into scalable application features. After understanding NLP tasks within tooling and encompassing data flow/structure, multiprocessing techniques are employed to optimize feature performance.
- **Model Management and Optimization:** Refined various components of models fed into our gRPC microservice, notably improving topic generation accuracy and ensuring backwards compatibility with older versions of the microservice.
- **Interdepartmental Liaison:** Acting as a key interface between product-facing teams and research groups, effectively communicating technical limitations and business needs.
- **Mentorship:** Mentoring junior engineers in design implementation, automated testing, and application deployment. Broadening their skillset through code reviews, pair programming, and emphasis on code quality and standards.

Mar 2021 – April 2022 | **R&D Software Developer** | [Carter + Clark](#) | *Duluth, GA*

- **Algorithm Optimization:** Streamlined the autonomous generation of Lots, House Plans, and Area Calculations for [Permit Drawings](#) within a plat – ensuring spatially accurate placement of Drainage, Utility, and Erosion Control elements.
- **3D Programming:** Utilized AutoCAD .NET API for dynamic manipulation of drawing objects in 3D spaces, adhering to Object-Oriented Design principles within a procedural codebase.
- **CI/CD Management:** Enhanced and managed CI/CD pipelines, bolstering version control & application packaging efficiency for a development team through rigorous implementation of Unit Tests and standardized contribution protocols.
- **Open-Source Contribution:** Actively engaged with the AutoCAD community, enriching open-source projects by enhancing documentation, and sharing code snippets and algorithm insights on forum blog posts.

Jun 2018 – Jun 2020 | **Geospatial Engineer** | [173rd Airborne Brigade](#) | *Vicenza, Italy*

- **Geospatial Data Analysis:** Employed Geopandas, ArcPy, and other GIS Python libraries for the efficient analysis and organization of extensive geospatial datasets, supporting dynamic applications.
- **UI Development for Tracking:** Developed user interfaces for a real-time tracking web application, integrating customized Geodatabases for instant entity location updates.
- **GIS Product Delivery:** Provided a diverse set of GIS and imagery products, specifically designed to support Combat Leaders in tactical operations.
- **Paratrooper Fortitude:** Executed high-stakes airborne operations with precision and resilience, embodying the rigorous demands and dynamic day-to-day challenges of being a soldier.

Skills & Interests

Clearance & Certifications: TS/SCI (01/2019), AWS Cloud Practitioner (03/2021), [GEOINT Professional](#) (11/2020)

Languages: Python, C#/.NET, SQL **Frameworks & Tools:** spaCy, NLTK, Gensim, pandas, NumPy, gRPC, Docker, Jenkins, Git

Passions: Guitar, Fitness, Motorcycles, Spanish, Photography