


Dylan Alexander

Software Engineer

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 [GitHub](#)

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Profile

Innovative software engineer with expertise in GPU-accelerated ML systems and high-performance microservices. A leader in code standardization and scalability, driving enterprise AI adoption through precision engineering and technical mentorship.

Education

Kennesaw State University 2021 – 2023
Computer Science, Concentration in AI & ML
University of Georgia 2024 – 2026
Professional Master's in Business Administration

Experience

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

- **Overview:** Lead Developer of an enterprise-level Conversational Analytics application – a gRPC microservice in Python utilizing Embedding Models & LLMs. Oversaw architectural strategy, actively led code contributions, & managed corresponding CI/CD pipelines in containerized environments, running on AWS ECS.
- **Productization of Research Tools:** Transformed NLP researcher POCs into scalable application features. Leveraged an in-depth understanding of NLP tasks, data flow, and multiprocessing techniques to optimize application performance.
- **ML Model Lifecycle Management:** Managed all stages of ML Model Lifecycles in different production environments, including model development, deployment, analysis, and tuning to optimize cloud resource consumption.
- **Cross-Functional Collaboration:** Acted as a key interface between product-facing teams and research groups, effectively communicating technical limitations and business needs. Delivered complex technical information to non-technical stakeholders.
- **Mentorship:** Mentored 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](#) – ensuring spatially accurate placement of Drainage, Utility, and Erosion Control elements.
- **3D Programming:** Kept OOP design within a procedural codebase while using AutoCAD .NET API for 3D space manipulation.
- **Open-Source Contribution:** Actively contributed to AutoCAD community forums, enhancing open-source projects, and sharing insights on algorithm optimization.

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

- **Geospatial Data Analysis:** Employed GeoPandas, ArcPy, and other GIS Python libraries for the analysis and organization of extensive geospatial datasets, supporting dynamically updating applications.
- **GIS Product Delivery:** Delivered a diverse set of GIS and imagery products, specifically designed to support Combat Leaders in tactical operations. Performed in high-stress conditions during airborne operations.

Leadership & Impact (NICE)

- **GPU-Accelerated Microservice Optimization:** Led the performance tuning of a Python gRPC microservice by integrating CUDA-enabled parallelization and implementing asynchronous streaming for inference requests. Enhancements reduced end-to-end response latency by 35% and minimized GPU memory fragmentation.
- **Code Standardization & Team Growth:** Drove code uniformity initiatives - developed a comprehensive Python best practices guide and a modular project template, streamlining onboarding and accelerating development consistency. Played a key role in hiring and scaling the engineering team, conducting technical interviews and evaluating candidates to ensure alignment with team standards and technical excellence.