CARTER GODIN

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SUMMARY

Software architect, machine learning, and data engineering specialist with over 4 years of experience designing and deploying production systems in local and cloud environments. Background in building and optimizing scalable data and processing pipelines and microservices using Docker, Kubernetes, Python, and CI/CD tools. Expertise in workflow automation, and performance tuning, with strong experience translating stakeholder needs into robust technical solutions.

SKILLS

- **Programming & Scripting**: Python, C++, Java, Embedded Systems
- **Engineering & Technical Skills**: Pytorch, Tensorflow, Computer Vision, Natural Language Processing, MatLab/Simulink, Pandas, NASA Discovery Class Mission Design, Systems Engineering, ZeroMQ
- **Data Engineering**: SQL, PostgreSQL, Databricks, Data Pipeline Development, Data Modeling, Data Processing Frameworks, Data Quality & Validation
- **Cloud & DevOps**: Cloud Platforms, Docker, Kubernetes, Jenkins, TeamCity
- **Leadership Skills**: Software Architecture, Project Management, Agile Methodology, Technical Recruiting, Technical Communication, Team Management

WORK EXPERIENCE

Lincoln Laboratory Group 45, Massachusetts Institute of Technology   **Sep 2022 - Present**
Assistant Technical Staff - Software & Algorithms Engineering   *Lexington, MA*
- Directed architecture design for software and machine learning systems, integrating Docker and Kubernetes to enhance micro-service orchestration and data pipeline development using Python.
- Engineered the design, training, and validation of ML systems while implementing robust data cleaning and preparation techniques to support structured dataset creation.
- Developed and deployed enterprise-level software systems using C++, Java, and Python within CI/CD frameworks such as Jenkins and TeamCity, ensuring production-ready code and system reliability.
- Collaborated directly with mission sponsors to refine project scope and align technical solutions with stakeholder needs.
- Conducted innovative threat assessments of emerging technologies to inform security and risk mitigation strategies.

Lincoln Laboratory Group 93, Massachusetts Institute of Technology   **Sep 2021 - Sep 2022**
Software Engineering Specialist   *Lexington, MA*
- Orchestrated agile development for multi-threaded algorithm initiatives in Java, C++, and Matlab, contributing to enhanced data processing workflows for orbital mechanics analysis in Space Domain Awareness.
- Managed end-to-end system development including design, testing, debugging, and deployment using Jenkins, Git, and Docker, ensuring efficient ETL/ELT workflow integration for operational systems.
- Designed and implemented both relational and non-relational database architectures to archive system products, aligning with best practices in data modeling and storage optimization.

EDUCATION

Rensselaer Polytechnic Institute (RPI)   **May 2021**
Bachelor of Science, Aeronautical Engineering

Massachusetts Institute of Technology (MIT)
Non-matriculating graduate coursework, Cognitive Robotics & Control Systems