

THOMAS LANIER ORR III

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EDUCATION

Georgia Institute of Technology (Georgia Tech) Atlanta, GA
MS Computer Science - Artificial Intelligence Spring 2024 - Summer 2026 (Expected)

Virginia Polytechnic Institute and State University (Virginia Tech) Blacksburg, VA
BS Computer Science Fall 2019 - Spring 2022

EXPERIENCE

Gap Inc Remote
Senior Software Engineer March 2025 - Present

- Architected a scalable PySpark-based ingestion platform for mission-critical demand forecast ingestion, processing 10TB+ of weekly data with 99.9% pipeline reliability.
- Led end-to-end performance optimization initiatives across Spark jobs, reducing Databricks compute costs by more than 30% through cluster right-sizing, query optimization, and elimination of redundant processing stages.
- Designed and standardized reusable pipeline architectures and dependency management strategies, reducing onboarding time for new pipelines and improving system maintainability across multiple production workflows.
- Drove cross-functional delivery of demand analytics datasets by partnering with data science and planning teams, enabling the development and deployment of new forecasting models and ensuring reliable data for downstream planning and decision-making.

Gap Inc Remote
Software Engineer August 2022 - March 2025

- Developed and productionized scalable data pipelines in PySpark and Databricks, supporting large-scale demand forecasting systems processing hundreds of millions of records on a weekly basis.
- Designed and implemented a reusable data engineering project template adopted across teams, standardizing development workflows, testing strategies, and deployment patterns to accelerate onboarding and reduce engineering friction.
- Introduced dynamic cluster sizing strategies in Databricks, optimizing resource utilization for varying data workloads and reducing unnecessary compute spend on smaller jobs.
- Partnered with data science and analytics teams to improve data model reliability and enforce data quality at scale, reducing downstream data issues and increasing trust in forecasting outputs.

Itus Digital Roanoke, VA
Software Engineer Intern May 2021 - August 2021

- Contributed to the development of a full-stack industrial asset management platform, implementing backend services and frontend features in a fast-paced startup environment.
- Delivered production-ready features under tight deadlines while maintaining code quality, version control discipline, and collaborative development practices.

SKILLS

Programming Languages: Python, TypeScript, Java, SQL, Rust
Data Engineering & Analytics: Databricks, Apache Spark (PySpark), Polars, Delta Lake
Databases & Storage: PostgreSQL, Parquet, Delta Tables, SQLite
Web & Backend Development: Spring Boot, Next.js, SvelteKit, FastAPI, Bun
Dev Tools & Infrastructure: Docker, GitHub Actions, Kubernetes

SELECTED WORK

PocketAgents - Single-file agent infra *Bun, SQLite* <https://github.com/treyorr/pocket-agents>
Architected a self-contained agent execution platform with integrated orchestration, tool execution, and retrieval systems, designed as a lightweight alternative to workflow engines and capable of running as a single executable.

Voca - Ephemeral voice chat platform *Rust, WebRTC, Svelte* <https://voca.vc/>
Build and maintain a real-time WebRTC-based voice platform supporting ephemeral sessions and zero-account access, handling peer-to-peer communication and signaling for live users.