

JUSTIN GROVES, PhD

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Senior Data Scientist | Machine Learning & Applied AI | Data Engineering | End-to-End Analytics

PROFESSIONAL EXPERIENCE

Senior Data Scientist

PySpark, GitHub, Power Platform, Palantir Foundry

ReefPoint Group (Remote)

Aug 2023 – Present

- **Chief architect for a cloud-integrated database and analytics system built from the ground up** tracking 300+ VA form templates; collaborated with government stakeholders to define KPIs and enable downstream analytics.
- **Engineered a pilot data pipeline, securing a \$1M client contract (potential extensions totaling \$2M)**, developing a semi-automated VA file inventory system using Python Selenium, BeautifulSoup, and NLP.
- **Deployed and presented end-to-end solution to identify and correct 200+ business model inconsistencies** through cloud-engineering with Foundry and PySpark eliminating a manual review and freeing human resources.
- **Reduced manual review time cost by 83% through automation**, deploying a data engineering and classification algorithm leveraging OCR, NLP, and RegEx to categorize 1,400+ documents.

Retirement Analyst Intern

Excel, Radar (Proprietary)

WTW (Remote)

May 2022 – Aug 2022

- **Calculated actuarial liabilities** for employee retirement plans, leveraging advanced Excel functions and proprietary software, ensuring accurate financial forecasting for client portfolios.
- **Developed and delivered a strategic actuarial plan**, presenting a comprehensive fiscal year report to senior leadership, facilitating data-driven decision-making for future budgeting and resource allocation.

Graduate Teaching Associate

Python, R, Excel, SageMath

University of Tennessee (Knoxville, TN)

Aug 2017 – Aug 2023

- **Developed Python-based data analysis modules** using pandas and NumPy to clean, validate, and analyze large datasets implementing algorithmic approaches to complex problems.
- **Presented complex technical concepts** to diverse audiences through multiple talks, translating advanced mathematical and data-driven ideas into clear, actionable insights.
- **Led instruction and performance tracking for 500+ individuals**, using Excel-based reporting and analysis to monitor outcomes, predict performance, and implement improvements.

PROJECTS

Scalable ETL and AI-Powered Speech Transcription Pipeline

AWS (Docker/Ray), PostgreSQL, FastAPI, React/TypeScript

June 2025 – Present

- **Co-designed and implemented a Python-based ETL pipeline** to scrape web content, process media files, and populate a normalized PostgreSQL (Supabase) database via SQLAlchemy for structured reporting.
- **Built a consumer facing modern front-end with React backed by FastAPI** to centralize authorization, validate HTTP requests, and responsively display results from search queries.
- **Created a GitHub organization and adopted CI/CD patterns** to streamline team development via opinionated linters (Ruff), version environments (pyenv), package management utilities (poetry), and automated cron jobs.

EDUCATION

PhD in Mathematics (Minor: Data Science & Statistics)

University of Tennessee, Knoxville

CLEARANCES AND CERTIFICATIONS

VA Public Trust Security Clearance

2023 – Present

[Data Engineer, Associate](#) – Palantir Foundry

2024