

Mason Del Rio

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SUMMARY

Data Engineer and full stack software engineer with 4+ years building production ETL pipelines, canonical data models, and self-serve dashboards that power company-wide metrics and reporting. Deep hands-on expertise in Python, SQL, dbt, and BI tools (Power BI, Tableau). Track record partnering with Product, GTM, and executive stakeholders to translate data needs into scalable, high-integrity data products.

TECHNICAL SKILLS

Data Engineering & ETL: dbt, Airflow, PySpark, pandas, NumPy, PostgreSQL, MySQL, MongoDB, Google BigQuery, ETL/ELT pipeline design

Languages: Python, SQL, TypeScript, R, Swift, C

BI & Visualization: Power BI, Tableau, Looker, data modeling, metrics reporting, dashboard development

Cloud & DevOps: AWS (EC2, S3, SageMaker), Kubernetes, GitHub (version control & CI/CD)

ML & AI: TensorFlow, Keras, Scikit-learn, LLM fine-tuning, NLP, vector databases

PROFESSIONAL EXPERIENCE

Infinite Music (Thizzler on the Roof) — Technology Lead (Full Stack Software Engineer) *June 2025 – Present*

- Built infinitemusic.io end-to-end, security, backend (FastAPI/Python/SQL), and frontend (TypeScript/React), delivering a full internal platform for digital distribution, royalties, and release management
- Designed multi-step ETL pipelines that integrate 4+ royalty data sources into canonical datasets, powering self-serve dashboards and data visualizations that reduced ad-hoc reporting requests by **~80%**
- Optimized MySQL/PostgreSQL query performance and established data integrity standards across production databases; led cross-functional sprints with offshore teams

Ask Coach! — Data / ML Engineer *March 2023 – Present*

- Built the AI engine powering Coach's Pick, a sports betting app, unifying multiple decentralized data sources into a centralized PostgreSQL database and designing ETL pipelines that feed TensorFlow prediction models for game outcomes and player props across all major U.S. sports
- Architected scalable data pipeline integrations with live sports analytics APIs (Python, Swift), establishing SLAs to ensure timely, accurate delivery of real-time data feeds for AI-advised sports bets

San Jose Fire Department — IT Analyst (Data & Analytics) *Dec 2023 – June 2025*

- Defined key metrics, built capacity planning forecasts, and developed Power BI dashboards that informed strategic resource allocation for **1,500+ personnel**
- Analyzed large-scale operational datasets to identify preemption trouble zones, delivering insights that reduced emergency response bottlenecks by **20%**
- Translated stakeholder data needs into technical requirements for the IT Master Plan; awarded Devoted Service (Class C)

Los Angeles Apparel / Yeezy — AI Engineer & Consultant *Oct – Dec 2023*

- Designed scalable data pipelines and AI-driven products for production optimization; advised cross-functional teams on AI integration strategy

Orange (Global Telecom) — Data Scientist Intern *Oct 2022 – Aug 2023*

- Built a universal internal chatbot (vector databases, GPT-4) that improved self-serve knowledge accessibility across departments globally
 - Deployed and fine-tuned LLMs (Llama 2, Falcon-40B) on AWS; reduced video editing time **75%** and newsletter production **50%** with custom GPT-3 models
 - Authored Generative AI reports for C-suite stakeholders highlighting ethics of training and usage of AI
 - Co-authored peer-reviewed paper "Findings from the Bambara-French Machine Translation Competition (BFMT 2023)," published in ACL LoResMT 2023; organized the competition partnering with global data scientists to advance low-resource language MT models
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EDUCATION

University of California, Davis — BS Statistics (Statistical Data Science), Asian American Studies | **Upper Division GPA: 3.7**
Statistics Department Award | HackDavis | HackLA | Intramural Football Team Captain