

Dimos Dimitrios Papageorgiou

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PROFESSIONAL SUMMARY

Motivated junior data professional transitioning into data engineering, with hands-on experience in Python, SQL/PostgreSQL, REST APIs, and cloud technologies (Azure). Independently designed, built, and deployed Waveline, a fully automated end-to-end data platform integrating the Last.fm, Spotify, and Deezer APIs with Claude AI and PostgreSQL, complete with a Flask web dashboard, scheduled ETL jobs, and AI-generated music insights, running in production on Railway. Skilled in relational database design, data transformation, and API integration. Background in full-stack development provides a strong understanding of how data flows across systems, showcased at dimospapageorgiou.com, an interactive portfolio consuming the platform's live production data. Eager to contribute to data pipeline development, ETL processes, and cloud data infrastructure within a collaborative engineering team.

TECHNICAL SKILLS

- **Data & Databases:** SQL, PostgreSQL (JSONB, aggregations, CTEs), Firebase, Microsoft Power BI
- **Programming:** Python (requests, psycpg2, Flask, APScheduler, python-dotenv), JavaScript
- **APIs & Integration:** REST API design & consumption, Last.fm API, Spotify API, Anthropic Claude API
- **Cloud & Infrastructure:** Microsoft Azure (AZ-900 in progress), Git, GitHub
- **Data Concepts:** ETL pipeline design, data transformation & reporting, scheduling & automation
- **Frameworks & Tools:** Node.js, Express.js, React, React Native, TDD, Agile/Scrum

PORTFOLIO PROJECTS

Waveline — Music Discovery Platform

June 2026 – Present

github.com/dimopapa91/music-insight-pipeline | [Live: music-insight-pipeline-production.up.railway.app](https://live.music-insight-pipeline-production.up.railway.app)

A full-stack music data engineering platform built with Python, Flask, and PostgreSQL integrating three live APIs and serving a fully responsive web dashboard, deployed in production on Railway.

- Designed and built an end-to-end ETL pipeline in Python ingesting data from three APIs simultaneously (Last.fm, Spotify, Deezer) storing artist tracks, listener stats, genres, and AI-generated insights from the Anthropic Claude API in PostgreSQL (JSONB), with automated daily scheduling via APScheduler
- Built a multi-page Flask web dashboard featuring real-time artist search, artist profile pages, side-by-side artist comparison with audio previews, a personalised taste profile, and a live music news feed from RSS sources and the Spotify new releases endpoint
- Implemented advanced SQL patterns (DISTINCT ON, CTEs, GROUP BY aggregations) and engineered a mobile-responsive front end with dark mode, search autocomplete, keyboard shortcuts, and a floating inline audio player using the Deezer preview API
- Deployed to production on Railway (PostgreSQL + web service) and exposed a public CORS-enabled REST endpoint serving live platform metrics consumed in real time by my portfolio website
- Followed production engineering practices throughout: environment-based secrets management, structured logging, automated weekly HTML email digests via Gmail SMTP, and full project documentation on GitHub

Personal Portfolio — dimospapageorgiou.com

July 2026

github.com/dimopapa91/dimos-portfolio | [Live: dimospapageorgiou.com](https://live.dimospapageorgiou.com)

An interactive portfolio with real-time 3D terrain and live data integrations built with JavaScript, Three.js, and GLSL, deployed on GitHub Pages with a custom domain.

- Built a real-time 3D terrain background with Three.js and custom GLSL shaders (simplex-noise vertex displacement), performance-tuned per device with a graceful SVG fallback for non-WebGL browsers
- Integrated live data on the client: real-time production metrics from the Waveline API, latest commits via the GitHub REST API, a serverless contact form (Web3Forms), and privacy-friendly analytics
- Shipped with production polish: full SEO and Open Graph social cards, custom 404 page, optimised assets (90% image compression), and mobile-first responsive design

CERTIFICATIONS & TRAINING

Microsoft Azure Fundamentals (AZ-900)**Manchester, UK | Sep 2024 – Present**

- Building foundational knowledge of cloud services, Azure architecture, and data storage solutions
- Studying key concepts: virtual machines, Azure SQL, Blob Storage, and cloud security best practices

FreeCodeCamp *JavaScript Algorithms and Data Structures***Jan 2023 – Mar 2023**

- Studied core data structures (arrays, stacks, queues, trees) and algorithmic problem-solving techniques

EDUCATION

Northcoders *Full Stack Developer Bootcamp***Manchester, UK | Mar 2023 – Jun 2023***Relevant projects:*

- Data-Driven News Platform - PostgreSQL & Node.js
 - Designed and implemented a normalised PostgreSQL relational database schema to store articles, users, comments and votes
 - Built RESTful API endpoints using Node.js/Express to query, filter, sort and paginate data at scale
 - Applied test-driven development (TDD) to validate database queries and data integrity
- Music Event Booking App - API Integration & Real-Time Data
 - Integrated third-party APIs (Ticketmaster, Last.fm, Deezer) to ingest and serve dynamic real-time data in a React Native app
 - Used Firebase as a real-time NoSQL database for live messaging and event data synchronisation
- Collaborated in Agile sprints with daily stand-ups, code reviews and pair programming

The University of Salford**Manchester, UK | Graduated June 2021**

BA Creative and Music Technology, Music Theory & Composition (2:1)

WORK EXPERIENCE

Factory Coffee *Manager***Manchester, UK | Feb 2022 – Present**

- Tracked and analysed operational data to optimise staffing schedules and maintain service quality during peak periods
- Trained and onboarded 11 team members, using structured performance plans to monitor progress and measure outcomes
- Demonstrated adaptability and structured problem-solving under pressure in a fast-paced environment

Freelance *Music Producer & Performer***Manchester, UK | Feb 2022 – Present**

- Managed and processed large volumes of audio data using industry-standard software (Pro Tools, Logic Pro, Ableton Live)
- Collaborated with multiple stakeholders to deliver creative solutions, demonstrating strong communication and project management

INTERESTS

- Exploring data engineering tools and cloud technologies (Azure Data Factory, dbt, Apache Spark)
- Building and contributing to open-source projects
- Music production, gaming and film scoring