



Jeremy Lam

Data/Software Engineer - Python, JS, Cloud

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Profile

I am a Data and Software Engineer specialising in **Python**, **JavaScript** and building **Cloud Infrastructure**. My current interests are **Google Cloud Platform**, **AWS**, **Java** and **Node.js/Express**. I also have experience as a session musician and music teacher.

Projects

Google Cloud Audio Analysis WebApp
Audio analysis WebApp

Sept 2025 - Oct 2025

- Built an audio analysis system on **Google Cloud Platform** that automatically extracts musical features from uploaded audio files.
- **Node.js/Express** web app on Cloud Run
- **Python** Cloud Functions for audio processing
- Firestore for data storage
- Complete **Terraform** infrastructure as code setup

➡️ [GitHub](#)

Guardian API Content Publisher
Data Streaming to Message Broker

April 2025 - May 2025
Launchpad

- Created a serverless **Python** application to fetch and publish Guardian articles based on dynamic search criteria
- Integrated with **AWS SQS** for message brokering using boto3 and environment-based credentials
- Ensured code quality with unit tests, secure API key handling, and adherence to PEP-8 standards
- Designed for deployment within **AWS Lambda**, using **Terraform** to test deployability

➡️ [GitHub](#)

AWS ETL Pipeline Implementation
Data Engineering Project (Totes Sales Data)

November 2024
Northcoders

- Orchestrated workflows with **AWS EventBridge**, **Lambda**, and **S3** events
- Participated in sprint planning, Kanban organization, and daily stand-ups to ensure project alignment and delivery
- Designed and implemented an **ETL** process to transform operational sales data into a star-schema data warehouse
- Built automated data ingestion from database to **S3** with **CloudWatch** monitoring and alerting
- Created real-time reporting dashboards using **Tableau** for business insights

▶️ [Project presentation link](#) ➡️ [GitHub](#)

Professional Development

Software and web development bootcamp with TechNative

Sept 2025 - Dec 2025

- Developed skills in back-end (**Node.js, express**) and front-end (**React.js**) engineering
- Completed numerous group projects, collaborating both in person and remotely.

Northcoders Data Engineering Bootcamp

September 2024 – November 2024

- Gained proficiency in back-end development techniques, AWS cloud services, and data warehouse design
- Developed skills in **Python, SQL, Terraform, and CI/CD** processes
- Implemented industry best practices in Agile methodology and Test-Driven Development

Technical Skills

Programming/Code: Python, Javascript, Java

Cloud: AWS and GCP, including EC2, Lambda, RDS, Cloudwatch, IAM, AWS API usage via command line, SDK, Athena, Glue & Step Functions

DevOps: Terraform, CI/CD (GitHub Actions)

Data: Intermediate/advanced SQL, Postgres, database modelling, normalisation, warehouse design

Design patterns: Star Schema warehouse, data lake, Lakehouse, mesh

Methodology: Agile/Scrum, Trello management & Orchestration

Testing: Test Driven Development, Pytest, Jest

Work Experience

Music Teacher

October 2024 - Present

Music theory and guitar teacher

Freelance

Trading Assistant

August 2024 - Sept 2024

Stock management and team collaboration

Sainsbury's

- Worked to fulfill required tasks within deadlines and learnt valuable skills for managing pressure and promoting teamwork

Music AI Research Assistant

January 2023 – July 2023

Data collection and analysis for AI music recommendation systems

Cantine.co

- Collected and analysed data for development of an AI playlisting tool using forms and spreadsheets to pass on to the development team

Freelance Musician

2017 – present

Performance, recording and writing

Various groups

Physics and Maths Tutor

2017 – 2024

Private tutoring and educational support

Various organisations

Education

MA Popular Music Practice (Composition)

2022 – 2023

Postgraduate degree in music composition

BIMM London

BMus Popular Music Performance

2018 – 2021

Bachelor's degree in music performance

BIMM London

Interests

- **Volunteer Tutoring:** Maths and English voluntary tutoring through education charity 'Action Tutoring'
- **Music Composition:** Writing and creating music using digital audio workstations, guitar and virtual instruments
- **Fitness:** Olympic-style weightlifting, competed at Crystal Palace representing Westway Barbell weightlifting club