



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.

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

Projects

Google Cloud Audio Analysis WebApp

Sept 2025 - Oct 2025

Audio analysis WebApp

- 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

April 2025 - May 2025

Data Streaming to Message Broker

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

November 2024

Data Engineering Project (Totes Sales Data)

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

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