



# Jeremy Lam

Data/Software Engineer - Python, JS, Cloud

✉ [Jeremy.fiarzen.lam@gmail.com](mailto:Jeremy.fiarzen.lam@gmail.com)   [GitHub](#)   07872 143 886   West Sussex   [Website](#)

## 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

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

## 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

*Music theory and guitar teacher*

October 2024 - Present

Freelance

### Trading Assistant

*Stock management and team collaboration*

August 2024 - Sept 2024

Sainsbury's

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

### Music AI Research Assistant

*Data collection and analysis for AI music recommendation systems*

January 2023 – July 2023

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

*Performance, recording and writing*

2017 – present

Various groups

### Physics and Maths Tutor

*Private tutoring and educational support*

2017 – 2024

Various organisations

## Education

---

### MA Popular Music Practice (Composition)

*Postgraduate degree in music composition*

2022 – 2023

BIMM London

### BMus Popular Music Performance

*Bachelor's degree in music performance*

2018 – 2021

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