

# GABRIEL LOPES PEREIRA

## Full Stack Developer

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### PROJECTS

#### DocEcho - PDF to text and audio Translation

10/2024   London, United Kingdom  
https://docecho.onrender.com/

##### Python, Flask, SQLite, TTS API

- Converts PDF documents into multilingual text and audio using text-to-speech
- Built scalable backend using Flask, deployed with CI/CD on Render.com
- Serves over 500 documents weekly across 8 languages

#### MoodMidi - advanced MIDI editing tools

02/2025   London, United Kingdom  
https://moodmidi.netlify.app/

##### React, TypeScript, Tone.js, Supabase, Magenta.js

- A modern web app for composing and transforming MIDI sequences with style transfer and AI-assisted generation
- Features a piano roll editor with real-time playback, velocity editing, and intuitive UI built with Konva and Material UI
- Includes genre-based style transfer (Jazz, Techno, Hip Hop, etc.), re harmonisation, transposition, and Magenta-powered randomization
- Supabase backed project system with cloud storage, login, and secure data sync
- Deployed on Netlify with CI/CD, fully responsive and optimized for musicians and producers

#### My Cloud App - note-taking and Personal Diary app for Children

06/2023   London, United Kingdom  
https://github.com/Moodyw03/MemoMingle

##### Flask, Supabase, JavaScript

- A secure note-taking app designed specifically for children, with a friendly, intuitive UI
- Extreme security measures implemented: password hashing, CSRF protection, JWT auth, and secure sessions
- Migrated from MongoDB to Supabase (PostgreSQL) for greater reliability and granular permission control
- Enforced HTTPS, content security policies, and strict input validation for maximum data protection

#### New World Disorder - Ecommerce T-Shirt Brand

06/2023   London, United Kingdom  
https://www.newworlddisorder.shop/

##### Django, JavaScript, Stripe API, Printful API

- E-commerce store for limited-edition fashion (only 33 units per drop)
- Integrated Stripe payments, Printful fulfillment, and secure user login
- Brutalist front-end aesthetic using custom CSS and minimalist UX

#### Moodloop - Web based stem player

11/2022   Location  
https://moodloop.netlify.app/

##### JavaScript, Web Audio API

- Real-time music stem mixer with drag-and-drop audio tracks and waveform controls
- Built custom audio effects with Web Audio API and responsive UI with Bootstrap

### WORK EXPERIENCE

#### Freelance App and Website Developer

##### Freelancer

03/2025 - 09/2025   London, UK

- Designed and developed custom web and mobile applications for clients across tech, education, and creative industries
- Delivered full-stack solutions using React, Django, Node.js, MongoDB, and Tailwind CSS
- Implemented secure authentication (OAuth/JWT), responsive UI/UX, and third-party API integrations (e.g., Stripe, Google Maps, OpenAI)
- Maintained client relationships, ensuring timely delivery, SEO optimisation, and post-launch support
- Boosted client engagement by 40% by implementing state-of-the-art UI/UX elements





### SUMMARY

Portfolio GitHub Creative and results-driven Full Stack Software Engineer with proven expertise in building and maintaining RESTful APIs, interactive UIs, and scalable applications using JavaScript, Python, React, and Node.js. Strong foundation in both frontend and backend development, cloud platforms, and DevOps. Distinction-grade graduate of Code Institute's Level 5 Diploma in Full Stack Web Development, with a rich background in music technology, graphic design, and IT education. Demonstrated success in Agile environments, delivering user-centric, performant solutions. Passionate about continuous learning, emerging technologies, and collaborative development.

### SKILLS

JavaScript (ES6+)		Python	Agile	
TypeScript	AWS	HTML	CSS3	
Bootstrap	C++	SQL	Django	Docker
Node.js	Express.js	Flask	FastAPI	
REST API	GraphQL	Flask	PostgreSQL	
MongoDB	Git	GitHub	Jest	
Google Firebase		Playwright	Selenium	
Kubernetes	Jenkins	CI/CD	OAuth 2.0	
JWT	JWT	Kubernetes	Logic Pro	
MongoDB	Netlify	Next.js	OAuth	
Photoshop	NoSQL	Azure	Figma	Vue.js
Angular	Your Skill			

### KEY ACHIEVEMENTS

-  **User Engagement Growth**  
Developed applications handling over 1,000 Monthly active users.
-  **Student Performance Boost**  
Increased student assignment completion by 25% through curriculum adaptation.
-  **Student Retention Increase**  
Retained 40% more students with personalized teaching methods.
-  **E-commerce App Success**  
Maintained an e-commerce app serving 100+ transactions monthly.

### TRAINING / COURSES

**DB0211EN: Django Application Development with SQL and Databases**  
IBM Verified Certificate.

### LANGUAGES

English  
Native



WORK EXPERIENCE

Computer Science Teacher

The St Marylebone CE School

04/2024 - 07/2024 Location

- Delivered engaging lessons in Python, HTML, CSS, and Scratch to students in Years 7-11
- Adapted curriculum for varied learning needs, resulting in a 25% increase in assignment completion
- Integrated Google Classroom, Replit, and online assessment tools to streamline workflow
- Boosted school-wide technological competence by implementing coding workshops impacting 500 students.

Computer Science Teacher

Holland Park Secondary School

03/2023 - 05/2023 London, United Kingdom

- Created and delivered lessons in Python, Replit, and Scratch for Years 7-12
- Enhanced digital literacy by 30% through executing IT initiatives and collaborative projects.
- Initiated after-school coding sessions to support learners' progression
- Achieved a 85% student satisfaction rate by incorporating hands-on projects and coding challenges

Computer Science Teacher

Warlingham School

01/2024 - 03/2024 Location

- Highlight your accomplishments, using numbers if possible.
- Designed coding projects aligned with national curriculum standards, improving student engagement by 30%
- Contributed in delivering Contributed in delivering assessments that helped identify and elevate underperforming students
- Enhanced student learning outcomes by 25% through personalized mentoring and support

Music Technology & IT Tutor

London School of Electronic Music

07/2022 London, United Kingdom

- Delivered 1:1 training in DAWs, DSP, and game audio, tailored to student goals
- Integrated FMOD and Unity for interactive sound design training
- Boosted student retention by 40% through personalized, relaxed teaching methodology
- Managed a digital library of 500+ educational resources for music theory and technology

Freelance Graphic Designer

Company Name

03/2003 London, UK

- Created brand identities, merchandise, and promotional assets for musicians and companies
- Worked on more than 100 visual projects across print and digital media
- Tools used: Photoshop, Illustrator, After Effects, InDesign
- Improved client engagement by 30% through innovative design solutions

EDUCATION

Level 5 Diploma in Full Stack Software Development

City of Bristol College & Code Institute

01/2023 - 01/2024 Bristol, United Kingdom

- (Distinction)
- City of Bristol College & Code Institute
- Tech stack: HTML, CSS, JavaScript, React, Python, Django, Node.js, Git, Agile, Testing

Master's in Audio Engineering

University of West London

01/2018 - 01/2021 London, UK

- (Merit)
- University of West London - London College of Music
- Focus: Game Audio, Digital Audio Design, Dolby Atmos, Spatial Composition

BA in Audio Systems

London Metropolitan University

01/2004 - 01/2008 London, United Kingdom

HND in Music Production & Business

South Thames College

01/2001 - 01/2003 London, United Kingdom

LANGUAGES

French

Native



Italian

Intermediate



Portuguese

Native



Spanish

Native



INTERESTS

Programming

Sound Design

Touch designer

Dolby Atmos

FIND ME ONLINE



LinkedIn

https://www.linkedin.com/in/gabriel-pereira-0a8761226/



GitHub

https://github.com/Moodyw03