Gabriel Lopes Pereira

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                   Github

Professional Profile

I am a full-stack developer skilled in JavaScript, TypeScript, HTML5, CSS3,, React, Node.js, MongoDB, SQL Server, and REST APIs within microservices architecture. I build responsive UIs using Bootstrap and Tailwind CSS, and develop scalable backend services with Node.js.

With a strong foundation in both front-end and back-end development, I have experience in version control systems like Git and a background in music technology and IT education, which enhances my problem-solving abilities. I aim to create efficient, user-friendly applications and continuously learn new technologies to improve my skills. I graduated with a distinction grade from code institute. I have an immense passion for coding and technology.

Projects Portfolio

PDF to Audio and Text Translation (Python, Flask, SQL): **Link**
A Python and Flask-based app that translates PDF files into text and audio in multiple languages. It features a simple interface, text-to-speech functionality, and multilingual support. The app uses SQLite for data management and is deployed on Render.com for easy access.

Moodloop a web-based stem interface. (HTML, CSS, Javascript) **Github**
A web-based stem mixing app built with HTML5, CSS3, and JavaScript for the Code Institute. It allows users to mix music stems with drag-and-drop functionality and real-time audio control using the Web Audio API. The app is responsive, with Bootstrap design, and deployed on Netlify.

MemoMingle Note-Taking Application (HTML, CSS, JavaScript, Python) Github
MemoMingle is a note-taking app for creating, editing, and organizing notes with tags and search functionality. Built with Flask, MongoDB, and JavaScript, it features user authentication, secure note management (CRUD), and real-time operations. Deployed on Vercel.

New World Disorder - E-Commerce Fashion Platform (Python, Django, JavaScript) **Github**
New World Disorder is a limited edition t-shirt brand (33 per design) built with Django, using Printful API for fulfillment and Stripe for payments. It features a brutalist design and integrates social media for customer engagement.

Professional Experience

Computer Science teacher for St Marylebone School & Sixth Form.
Tradewind LTD- computer science.
4/2024
• secondary school - computer science contract based from April to July
• Python, replit, scratch, google apps, IT, HTML CSS
• Tailoring and marking the computer science classes to years 7 to 11 with about 25-30 students.

Teacher for Warlingham School & Sixth Form College
Empowering LTD- computer science.
3/2024
• secondary school - computer science contract based from Jan to March A Levels.
• python, replit, scratch, excel, google apps, HTML, CSS
• Tailoring the computer science classes to years 7 to 11 with about 25- 30 students

Teacher for Academics LTD- computer science.
3/2023
• Year 2023 at holland park secondary school - computer science from march to may 23
• Google classroom, python, replit, scratch, excel, googlesheet.
• Tailoring the computer science classes to years 7 to 12 with about 25- 30 students.

Music Technology and IT tutor - London school of electronic Music.
7/2022- Present
• Developing and delivering a Music Technology course for students from all ages.
• Providing one-to-one tuition to students, explaining both basic and advanced principles of digital audio workstations, DSP, including production, mixing and mastering
• Tailoring one-to-one tuition to enable students to achieve their personal goals and work in line with their interests

• introducing a fresh approach to music education that encourages more laid-back instruction and learning so that students can hone their abilities in a fun and stress-free setting.

Graphic Designer (United Kingdom, London 03/2003 - present)
Graphic Design from covers to content tables to the layout of individual pages, labels, stickers, meeting notes, comp slips, personal cards, CD & LP covers etc. Problem-solving adhering to procedures, Prioritising work, being practical, Customer service, Project Management.

Technical Skills

Programming:	Html, Css, Python, Django, Javascript, React, Node.js, Git, Github, SQL, React.
Digital audio workstations:	Logic x, Pro Tools, Ableton, Izotope Rx8, Max/Msp, FMOD, Unity, Dolby Atmos, Reaktor.
Recording consoles:	Neve, SSL, Audient
Sound recording:	MIDI, Sound Engineering, Recording.
Audio post-production:	ADR, Foley, Game Audio, Sound design, Mixing, Mastering.
Video post-production:	OBS, Streaming, Adobe Premier, Final Cut Pro.
Software:	Microsoft Office (Word, Excel and PowerPoint), Wordpress, after effects, Clion, vs code, Javascript, Html, css, Python, Adobe Photoshop, Premier. Final Cut Pro.
Operating systems:	Windows OS and Apple OS.

Qualifications

Level 5 software development degree:	**Level 5 Web Development applications Diploma. (Distinction)** City of Bristol College and Code Institute.
	HTML, CSS, Python, Javascript, SQL, Django, Node.js, React, Git, C++, Machine Learning.
Jan 2023 - May 2024	

MU degree: **Sep 2018 - June 2021**	**Electronic Music Composition. Audio Engineer. (Merit)** *University of West London. London college of Music.* Interactive music Technology, Digital audio interface Design, Game Audio, surround recording, Music Technology, Dolby Atmos.

BA degree: **sep 2004 - may 2008**	**Audio Systems. (Merit)** *London Metropolitan University.* Modules included: Music Education, Audio Post Production, Experimental Sound, Live Sound and Recording Techniques, Future Media and a Music Technology project

HND: **sep 2001 - June 2003**	**Music Production and Music Business.** *South Thames College.* Modules included: Composition in Context, Music Composition and Production, Music Technology, Sound Creation and Manipulation, Studio Recording and Engineering, Music and Sound for Computer Games Sound Design for Moving Image Production

A Levels: **sep 1995 - may 1997.**	**History, Languages, Philosophy.** *Colegio Superior De Campos.Portugal.*

Personal Details

Languages:	English (fluent), Portuguese (native), French (native), Spain (Native, Italian (intermediate)

Interests.

Sports activities (Football, surf,), Reading, Travelling, Making Music, Synthesis, Programming, 3D Audio,Technology, blockchain, AI, Cooking, Illustration and Anime, History, Anthropology, Comics, Comedy, Photography.