Gabriel Guimaraes

Software Engineer | East Midlands, England

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Professional Skills

- Programming Languages: PHP, Python, TypeScript, Go
- Other Technologies & Tools: SQL, Git, Docker, GitHub Actions
- Languages: English, Brazilian Portuguese

Work Experience

Driver and Vehicle Standards Agency (DVSA)   2024–Current
Software Engineer

- Developed and maintained the Vehicle Operator Licence service, focusing on app development within an Agile environment. Enhancements to the system improved the user experience for 20,000+ businesses and HGV licence holders in the UK.
- Rewrote a Java 17 API into TypeScript, enhancing maintainability and assisted in aligning with modern development practices.
- Created base PHP Docker images to support containerisation across services and implemented security scanning in the CI pipeline, improving code quality and system security.

Personal Projects

goto   2024
A command-line tool for simplified directory searching and switching.

- Designed and implemented a tool to streamline directory navigation using Go, Bubble Tea and Shell Scripting.
- Added functionality for customisation flags to adjust search depth and root directories, improving user control.
- Implemented a configuration file for visual and functional customisation, allowing users to modify default settings and exclude specific directories.

Chess API   2024
An API for generating optimal chess moves based on FEN states.

- Built a RESTful API using Go, Docker and the GIN framework to process FEN inputs and return strong chess moves.
- Engineered a performant and reliable API core to ensure accurate and fast move suggestions.
- Delivered a focused solution without unnecessary features, emplaning simplicity and usability.

MOT History SDK Contribution   2024
An open-source SDK for interacting with the MOT History API.

- Contributed to building a Go-based SDK with no external frameworks, ensuring simplicity and reliability.
- Enhanced testing by adding server mocking and GitHub actions workflow for continuous testing.
- Developed structured response handling and built-in rate limiting to improve developer experience and API efficiency.

Education

University of Roehampton, London   2024–Current
B.S. Digital Technology Solutions

Fullbrook 6th Form, South East   2021–2023
A-Level. Computer Science, Mathematics, Physics