

Pedro Mota

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Summary:

A results-driven software developer with a strong background in **full-stack development**, **web design**, and **DevOps**. Currently honing my expertise at 42 Lisbon, a prestigious **coding** school renowned for its hands-on, project-based learning approach. I thrive on tackling complex challenges and delivering innovative solutions. My commitment to continuous learning and collaboration drives me to constantly refine my skills and contribute to the creation of impactful innovative software.

Technical Skill Set:

- **Programming Languages:** C, C++, JavaScript, Python.
- **Front-End:** React, HTML5, CSS3, jQuery, modern JavaScript and CSS frameworks
- **Back-End:** Django, Flask, Node.js, Express.js,
- **Databases:** MySQL, PostgreSQL, MongoDB, RESTful/GraphQL APIs
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Jenkins, Terraform, CI/CD pipelines, Unix Shell Scripting,
- **Version Control:** Git, GitHub
- **Testing:** Jest, Pytest, Selenium
- **System Administration:** Network Architecture, Linux/Unix
- **Soft Skills:** problem-solving, teamwork, communication

Portfolio Projects:

- **Minishell (C, Unix, POSIX-Compliant Shell Development):** Developed a custom **Unix-like shell** with features like command execution, piping, and redirection. Handled complex **environment variable** expansion and **process management**, ensuring compatibility with **POSIX systems**. Improved performance by optimizing memory management, made up 1-second faster than bash parsing and executing the application.
- **FT IRC (C++, Networking):** Built an **RFC-compliant IRC server** supporting multiple client **connections**. Implemented **socket programming** and **real-time message routing**. Improved server efficiency **by 2%** through optimized network event handling, Optimized and **low memory consumption**
- **Inception (Docker, DevOps, CI/CD):** Designed and deployed a **Docker-based infrastructure** with automated **CI/CD pipelines** for **version control** integration. **Reduced deployment** times by **1%**, **improved** scalability, and enhanced security through container orchestration.

Education:

42 Lisbon, Beato, Lisbon — **Software Development**

Apr 2023 - Present

At 42 Lisbon, a project-based coding school with over 400 students, I focused on **software engineering** and **web development**, honing my skills in **system architecture**, **automation**, and **scalable solutions**. Through hands-on projects, I gained experience in **deploying and managing distributed systems**, implementing **continuous integration and delivery (CI/CD) workflows**, and optimizing **backend services**. My work also involved addressing **real-world challenges** in **system performance** and **database management**, contributing to the development of robust, production-ready applications.

Bootcamp (Piscine), 42 Lisbon — Intensive C Programming & Unix Shell

Jan 2023 - Feb 2023

Completed a rigorous 4-week bootcamp focused on **C programming** and **Unix shell scripting**, gaining a deep understanding of **process management**, **system calls**. Participated in weekend group projects that enhanced my collaboration and **problem-solving** abilities.

Escola Prof. Comunicação e Imagem, Lisbon — Multimedia Technician

Sep 2018 - Aug 2021

Completed a hands-on program focused on **project management**, **product design**, and **web development**. Gained expertise in **3D design**, **image and video editing**, and **vector-based algorithms** using tools like **Adobe Photoshop**, **Premiere Pro**, **After Effects**, **Substance Designer/Painter**, and **Blender**. Developed foundational knowledge in **network protocols** and **system management** alongside **web design and development**.

Experience:

Jimpisoft, Oeiras — Tech Support

Oct 2023 - Nov 2023

Provided technical support and managed **SQL Server databases**, resolving **data integrity** issues and ensuring reliable **database performance**. Improved ticket resolution times by **1%**, increasing customer satisfaction by utilizing remote **troubleshooting** tools.

Clínica de Terapias Chinesas, Lisbon — 3D Designer & Web Design Internship

May 2021 - Aug 2021

Revamped the clinic's website, enhancing **user experience** and **visual appeal**, which increased **client engagement** by **2%**. Created **3D models** of the **clinic's environment**, contributing to a **1%** improvement in **online visibility** and **customer interaction**.

Other Experience:

Hackathon: Leveraging AI for Portugal — Portuguese Public Sector + Google, Lisbon

Participated in a hackathon where I developed a **predictive AI model** to assist in identifying optimal locations for new citizen service points in Lisbon. Utilized **demographic data** and existing service point information to create a mock-up and an MVP, providing a data-driven solution to improve **public services**. Demonstrated skills in **machine learning**, **data analysis**, and **rapid prototyping**, contributing to more efficient decision-making processes for the public sector.

Additional information:

Passionate about **machine learning**, **computer vision**, and the development of **generative AIs**. Fluent in **Portuguese** and proficient in **English**.