Henrique Barata
SOFTWARE ENGINEER

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SUMMARY

Software Engineer with strong problem-solving abilities, known for creating efficient solutions and thinking outside the box to overcome complex challenges. A fast learner with a background in Java, Python, PHP, C++, and JavaScript. Experienced as a backend developer with expertise in system design and scalability, consistently delivering reliable and high-performance code. Thrives in collaborative environments, where teamwork and shared perspectives spark innovative ideas and impactful solutions.

SKILLS

- Object-Oriented Programming;
- System Design & Scalability;
- Data Structures & Algorithms;
- Database Management;
- Natural Language Processing;
- Machine-Learning;

Other Skills:

- Problem-solving;
- Resourcefulness;
- Creativity;
- Fast learner;
- Research Skills;
- Teamwork;

EDUCATION

Bachelor's Degree: Computer Science
Faculdade de Ciências, Universidade de Lisboa 2019-2022

Master's Degree: Computer Science
FCT Scholarship Awarded
Faculdade de Ciências, Universidade de Lisboa 2022-2024

EXPERIENCE

Principal Software Engineer - VA|PREVENTION (09/2023 - 12/2024)

I developed a web application from the ground up to prevent type 2 diabetes using a Virtual Assistant, My key contributions included:

- Architected and implementing the full stack in Laravel;
- Developing the Virtual Assistant dialog engine in Python with NLU and NLP;
- Structuring the application's architecture following the MVC pattern with RESTful APIs;
- Configured a secure Apache server and SQL databases;
- Collaborated with cross-functional teams.
- Implemented security features like data encryption, access controls, and SSH protocol.

Code Reviewer - Outlier - Freelance (01/2025 - 04/2025)

At Outlier, I contributed to the code review process by ensuring code quality, maintainability, and adherence to best practices. I reviewed code for efficiency, readability, and scalability, offered constructive feedback, identified performance and security improvements, and promoted industry standards—enhancing both my coding skills and the team's development culture.

Software Developer Engineer - Unwind Minds - Volunteer (02/2025 - Present)

I volunteered at a health-tech startup dedicated to supporting women's mental health throughout the maternity journey. The platform leverages AI to deliver accessible, personalized care aimed at promoting emotional well-being during pregnancy and postpartum.

- Developed cross-platform Flutter apps for AI-driven mental health solutions, integrating biometric data to personalize user experiences and ensuring security and scalability.
- Collaborated with AI, data science, and UX/UI teams, contributing throughout the development lifecycle, from ideation to deployment, testing, and iteration.