



André Filipe Software Engineer

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Soft skills

- Problemsolver
- Patient
- Team player
- Critical thinking

Languages

- Portuguese
- English

Softwares

- GitHub
- VScode
- IntelliJ
- Docker
- Oracle VirtualBox
- Wireshark
- JMeter
- Postman
- knime
- Visual paradigm
- Figma
- Miro

About me

A highly **motivated** and **collaborative** team player with a strong foundation in software development. I am a **strategic, detail-oriented**, and **organized** individual with a creative mindset, eager to contribute to the company's objectives and drive innovation. Ready to take a challenging role in **Fullstack development**, where I can grow, learn, and make meaningful contributions to the team and company.

Skills

Java | C/C++ | C# | Python | Haskell | HTML | CSS | PUG | React | Node | SQL | NoSQL | mongoDB | Docker | Wireshark | Git | Vue | Express | REST | webSockets | Microservices | Monolith | Distributed Systems | Compilers | OOP | Functional programming | Agile | CI/CD | Frontend | Backend | Full- Stack | Data science | kubernetes | Linux | Ansible | Pandas | Numpy

Education

Bachelor's Degree in Computer Software Engineering

From 2020 to 2024 [University of Minho](#) Braga, Portugal

- **Algorithms & Complexity:** Strong foundation in data structures, search and sorting algorithms, graph traversal, and optimization techniques for efficient software development.
- **Computer Networking:** Deep understanding of the TCP/IP stack, OSI model, and network protocols (HTTP/S, DNS, DHCP). Hands-on experience with Wireshark for network analysis and troubleshooting.
- **Distributed Systems:** Developed a shared data storage service using TCP sockets, enabling remote clients to insert and retrieve data. Designed a concurrent server architecture that efficiently manages multiple client connections while minimizing thread contention.
- **Data Processing & Analysis:** Data analytics, manipulation, and visualization of large datasets. Experienced in transforming and aggregating data to extract insights and presenting findings through clear visualizations. Focused on optimizing data workflows to enhance performance and scalability in analytical applications.
- **Database Management & SQL:** Designed and optimized complex data models, queries, indexing strategies, and performance tuning for high-efficiency applications.
- **Cloud Computing:** Deployed web applications using Docker, Kubernetes, and infrastructure automation with Ansible.
- **Web Engineering:** Developed full-stack applications with Vue.js, secured authentication using JWT, and built RESTful APIs with Express and MongoDB integration.
- **Server Performance:** Evaluated key performance metrics such as latency, response time, throughput, and resource usage using JMeter. Analyzed CPU, memory, and network performance to identify bottlenecks and optimize server efficiency, ensuring scalability and reliability under load.
- **Compiler Development:** Implemented a context-free grammar with lexical and syntactic analyzers for compiler construction and language processing.
- **Network Optimization & Router OS:** Developed router OS for a mesh network, with discover ability, resilient to shutdown nodes and optimal path finding to deliver UDP packages for a low-latency real-time video delivery system.
- **3D Computer Graphics:** Built 3D visualizations and a solar system simulation using C# and OpenGL, incorporating lighting effects, camera perspectives, and real-time rendering.
- **Software Development:** Proficient in multiple programming paradigms, including object-oriented, functional, and event-driven development.