

DAVID CRUZ

Software Developer

Bachelor's Degree in Computer Science and Engineering

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I'm always **eager to learn** and take pride in being **responsible, efficient**, and **punctual** in my work. I'm comfortable **communicating and working within a team** while still **being autonomous** when the situation requires it. I am **capable of working well under pressure** and **I learn new tools with ease**. Technology has been a part of my life for as long as I can remember, and that early interest has grown into a **passion for computers and science**.

Academic Background

Bachelor's Degree in Computer Science and Eng. Instituto Superior Técnico (Completed 2024)

Hands-on projects enhanced my **problem-solving and teamworking skills**. I studied various programming languages, **algorithms, data structures**, and computer architecture, preparing me to tackle complex challenges in the field of technology.

Master's Degree in Computer Science and Eng. Instituto Superior Técnico (In progress)

Specializations: Artificial Intelligence and Cybersecurity. I am currently learning about these topics and am curious to see how they translate to solving real-world problems.

Technical Skills

Programming - Java, Python, C and C#:

- Proficiency in **algorithms, structures, and design patterns** from several **object-oriented projects**.
- Java: Spring-boot, Hibernate** and others.

Machine Learning and Data Science:

- Developed **classification and neural network models**.
- Python: Sklearn, Pandas, TensorFlow and PyTorch**.
- Data visualization with **matplotlib**.

Web Development - HTML, CSS and JavaScript:

- Implemented a website simulating a smartwatch interface.
- Developed a personal resume website from scratch.

Version Control and Git:

- Facilitated parallel development: **branches and pull requests**.
- Maintained code integrity within shared team repositories.

Databases – Microsoft SQL Server and Pentaho:

- Designed **databases and data warehouses**.
- Efficient queries and views** to optimize data retrieval.

Linux OS:

- Linux command-line tools and process automation.
- Performed tasks such as scripting and package management.

Other Skills – Microsoft 365, LaTeX, Photoshop, Vegas

Professional Experience

Software and AI Developer (2025 - Present)



- Modernized the infrastructure of a major Portuguese Bank by **developing a GenAI tool to automate code migration**.
- Followed the entire project lifecycle: from **defining the AI architecture** to the development of **unit tests and debugging**.
- Agile development** with a strong focus on **teamwork**.
- Implemented a **POC RAG chatbot on mental health** based on World Health Organization guidelines.

Internship – Java Developer (2022)



- Developed a CRUD application** using Java frameworks such as **Spring Boot, and Hibernate**.
- Integrated an authentication functionality using the Keycloak platform and **tested endpoints** with Postman.

Electrician Assistant

Electro-Nelson & Cruz

- Supported the installation of wiring and outlets while ensuring compliance with safety standards.
- Troubleshoot electrical issues and organized work areas and equipment to maintain a safe environment.

Extracurricular Activities

Fansubber (Since 2014)

CrowFansub

- Team-based translation and subtitling of media content.
- Enhanced **language skills** but also sharpened my **attention to detail**.
- Developed Lua scripts** to automate repetitive tasks.

Volunteering at an Animal Shelter (2020)

- Responsible for the maintenance and care of animal habitats and their environment.

Languages

Portuguese: Native; English: C2.