

Gabriel Almeida

INFORMATICS ENGINEERING STUDENT · RESEARCHER

Coimbra, Portugal

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Experience

Departamento de Engenharia Informática — Universidade de Coimbra

Coimbra, Portugal

UNDERGRADUATE STUDENT RESEARCHER

Jan. 2024 – Present

- **LLM-based Software Reliability Research** (Sep. 2025 – Present): Conducting a large-scale empirical study on how to leverage Large Language Models (LLMs) to significantly enhance software reliability and system performance.
- Investigating human-AI collaboration strategies, demonstrating that pairing human developers with LLM-generated code effectively mitigates critical system failures.
- Authored a research paper detailing the reliability gains achieved through these human-AI software pairings. The paper is currently under review for the 37th IEEE International Symposium on Software Reliability Engineering (ISSRE 2026).
- **Talentos@DEI Scholarship Program** (Jan. 2024 – Jul. 2024): Awarded a Research Initiation Scholarship focused on implementing methods to recognize and identify anomalous patterns in complex datasets.

CyberSecurity Laboratory @CISUC

Coimbra, Portugal

MEMBER & CTF PLAYER

Sep. 2025 – Present

- **Challenge Development:** Design and development of technical challenges for Capture The Flag (CTF) competitions aimed at the academic community, fostering security awareness and hands-on learning for students.
- **Competitive Performance:** As a member of the CSLab CTF Team, I compete in high-level international security competitions, solving complex problems in areas such as Reverse Engineering, Pwn, Web and many others.
- **Digital Presence & Outreach:** Manage the laboratory's social media channels and coordinate the promotion of cybersecurity events to expand community engagement and visibility.

jeKnowledge (Junior Enterprise)

Coimbra, Portugal

JUNIOR SOFTWARE DEVELOPER

Mar. 2025 – Oct. 2025

- **Junior Software Developer** (May 2025 – Oct. 2025): Developed and maintained robust software solutions within a dynamic, student-led tech environment.
- **Trainee** (Mar. 2025 – May 2025): Rapidly acquired skills and contributed to team projects prior to promotion.

Education

Universidade de Coimbra

Coimbra, Portugal

BSc IN INFORMATICS ENGINEERING

2023 – Present

- Current average: 16.6/20
- Admission grade: 18.4/20

Escola Secundária Maria Lamas

Torres Novas, Portugal

SCIENCE AND TECHNOLOGY

2020 – 2023

Skills

Frontend	React, Next.js, TypeScript, Tailwind CSS, Framer Motion
Backend	Node.js, Python, Django, Ruby on Rails, PostgreSQL
Infrastructure & DevOps	Docker, GitHub Actions, Git, Linux

Extracurricular Activity

ShiftAPPens Hackathon

Coimbra, Portugal

PARTICIPANT

2024, 2025, 2026

- Participated in three consecutive editions of the premier student hackathon in Coimbra, developing innovative software solutions within a 48-hour timeframe.
- Collaborated in multidisciplinary teams to prototype and pitch technical projects to a panel of industry experts.