

# Eduardo Faria

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## Education

### Bachelor's Degree in Computer Science and Engineering

University of Minho

Sep. 2022 — Jun. 2025

Braga, Portugal

- Cumulative GPA: 16/20 (Top 8%)

## Professional Experience

### Cybersecurity/Management Summer Intern

Eurotux S.A.

Jul. 2024 — Aug. 2024

Braga, Portugal

- Helped the SOC team in using OpenCTI to handle an average of 28 security alerts per day, including a peak of 171 incidents, which provided firsthand experience in cybersecurity principles and high-pressure situations
- Conducted comprehensive penetration testing using Kali Linux on Metasploitable 2, identifying, understanding, and exploiting 15 critical vulnerabilities to enhance system security awareness
- Prepared and revised over 110 Standard Operating Procedures (SOP) for 13 sub-teams, accounting for 31% of the company's SOP library. The newly created SOPs were used in up to 30% of teams' tasks, significantly boosting efficiency and enhancing English technical writing skills

## Projects

### Network Monitoring System | Go, Git

- Designed a network monitor in Go to analyze network links and devices across a distributed environment. Implemented custom UDP-based and TCP-based application-layer protocols, enabling fast communication between multiple agents and a centralized server, with minimal latency
- Configured a scalable architecture supporting up to 36 multiple agents, using JSON-based task management to define operations and thresholds. Validated the system through thorough testing with CORE, monitoring metrics like latency and bandwidth across various simulated devices

### Proof-of-Work Blockchain | Go, Git

- Engineered and implemented a blockchain from scratch in Go, leveraging SHA-256 hashing for secure block verification, proof-of-work consensus to ensure decentralization, and BadgerDB for efficient and persistent storage, optimizing performance and security in a custom-built solution
- Developed a command-line interface (CLI) to interact with the blockchain, enabling dynamic block addition, chain traversal, and proof-of-work verification, improving usability and system transparency

### Task Delegation Server | C, Git

- Created a C-based server as part of a 3-person team to manage, schedule, and execute tasks using named pipes, enabling up to 72 concurrent users to delegate and monitor their program's execution
- Developed an SJF-based scheduling algorithm that decreased the existing FIFO's algorithm all-around task execution waiting time by 34%, smoothly enabling the server to have up to 128 parallel processes running

### Route Optimizer | Python, Git

- Conceived a Python program to optimize graphs' resource distribution using AI pathfinding techniques. Designed a custom A\*-inspired algorithm and created benchmark tests on graphs with up to 500 nodes, that showed reduced search times by 16% and improved resource efficiency by 4%
- Pioneered a complementary graph representation of the map of Portugal, that accurately plots 307 municipalities, to enhance the project's applicability to real-world scenarios, improving its practical relevance and usability

## Extracurriculars

### Co-Director of the Marketing and Content Department

CeSIUM (Software Engineering Students' Association of the University of Minho)

Sep. 2024 — Jul. 2025

Braga, Portugal

- Directed a team of 8 collaborators in creating and managing content for CeSIUM's social media channels, leading to 32 new posts

### Programming Mentor

CoderDojo Braga

Feb. 2023 — Present

Braga, Portugal

- Mentored children aged 7-17 in programming across 15 sessions, with nearly all students returning for additional lessons
- Guided trainees through Python/Scratch coding challenges that developed participants' basic engineering skills and project creativity

### Organizer - Image and Communication Department

SEI (Software Engineering Week)

Dec. 2023 — Feb. 2024

Braga, Portugal

- Coordinated logistics and communications for over 800 participants and 32 companies, ensuring smooth event operations and high engagement across 22 workshops, talks, and gatherings
- Executed a social media content strategy during SEI, which resulted in a 15% increase in followers and engagement

## Other qualifications

- Technical Skills:** GO, C, C++, C#, Java, Python, Haskell, HTML, CSS, JavaScript, Next.js, Git
- Languages:** English (proficient), Portuguese (native)
- Certifications:** Cambridge Certificate in Advanced English (CAE): C2 (highest level, 2024)