



Miguel Rôlo

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WORK EXPERIENCE

Rato - Associação para a Divulgação Cultural e Científica

City: Corroios | Country: Portugal

[01/09/2017 - Current]

Full-Stack Developer & Trainer

- Full-stack development of the **Ratrix** platform (CMS/Dashboard) with security features and OWASP guidelines:
 - **2FA, RBAC, OWASP**
- Designed RESTful APIs and built educational games and websites with ASP.NET Core and C#, in partnership with national foundations and local councils
 - **RESTful APIs, ASP.NET Core, C#**
- Instructor in programming sessions; evaluator for Professional Aptitude Tests (PAP)
 - **Next.js, React, Next.js, Node.js, MongoDB, Express.js, TypeScript**

Rato - Associação para a Divulgação Cultural e Científica

City: Corroios | Country: Portugal

[01/07/2025 - 31/10/2025]

Full-Stack Developer Intern

- Optimized and extended the **Ratrix** platform, implementing new features and maintaining RESTful APIs to address real operational needs
- Collaborated with the technical team to ensure scalability and maintainability of internal resources
- Supported technology workshops and digital literacy initiatives
 - **Next.js, React, PostgreSQL, Drizzle ORM, RESTful APIs**

Polytechnic Institute of Setúbal

City: Setúbal | Country: Portugal

[01/10/2024 - 11/07/2025]

Project Manager, SCRUM Master & Full-Stack Developer (School Project)

- Led and managed a team of 4 developers, overseeing task delegation, sprint planning, and project delivery using Agile/SCRUM methodology
 - **Agile, SCRUM**
- Contributed as a full-stack developer alongside project management responsibilities, building a web application using the MVC architectural pattern
 - **ASP.NET Core, C#, MVC, TypeScript, CSS, OWASP ZAP, Azure**

Albatroz Digital

City: Caparica | Country: Portugal

[01/03/2022 - 30/06/2022]

Software Developer Intern

- Developed the **Adopt4Paws** mobile app, winning **3rd place** at IPStartup
- Contributed to the **Feira de Sant'Iago** large-scale project, gaining experience with complex application architecture
 - **Dart, Flutter**

EDUCATION & TRAINING

[28/09/2023 - Current]

Bachelor's Degree, Computer Engineering

Polytechnic Institute of Setúbal

City: Setúbal | Country: Portugal | Level in EQF: 6

[30/11/2019 - 07/07/2023]

Professional Higher Technical Course, Information Systems Technologies and Programming

Polytechnic Institute of Setúbal

City: Setúbal | Country: Portugal | Level in EQF: 5

CERTIFICATIONS

[Google, 26/03/2026]

Google Data Analytics

[Unity, 24/03/2026]

Unity Essentials

[IPD], 09/11/2024]

Technology Facilitator V1 2024

[IPD], 29/11/2021]

Technology Facilitator V1 2021

SKILLS

Full-Stack Development | Data Analysis | Project Management | MERN Stack | TypeScript | Next.js | Redux | REST API | OWASP ZAP | PostgreSQL | SQL | T-SQL | ASP.NET | C# | Unity3D | Java | Dart | Flutter | Python | Vue.js | AngularJS

VOLUNTEERING

[01/07/2024 - 01/08/2024]

European Solidarity Corps Długopole Górne, Gmina Międzylesie, Kłodzko, Poland

[12/12/2022 - 19/12/2022]

Erasmus+ | "3D Education: Democracy, Diversity and Dialogue" Belval, Esch-sur-Alzette, Luxembourg

[27/06/2022 - 04/07/2022]

Erasmus+ | Team Leader | Europejskie Forum Młodzi - "ACT for Nature" Bystrzyca Kłodzka, Kłodzko, Poland

[09/08/2021 - 16/08/2021]

Erasmus+ | Associació Amics - "How do videogames affect youngsters?" Alicante, Valencian Community, Spain

[07/10/2019 - 14/10/2019]

Erasmus+ | Diaspora - Seminar for Global and Human Rights Education Fernão Ferro, Setúbal, Portugal

[06/05/2019 - 13/05/2019]

Erasmus+ | Mobility of Youth Workers - "From consumerism to co-ownership" Pärnu, Pärnumaa, Estonia

HONOURS AND AWARDS

[12/10/2024]

GUINNESS WORLD RECORDS for the World's Largest Programming Class Awarding institution: GUINNESS WORLD RECORDS