Afonso Manata

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Education

Instituto Superior Técnico   **Expected Graduation: May 2027**
Bachelor of Computer Science and Engineering   *Lisbon, Portugal*

Work Experience

Promptly Health   **September 2025 – December 2025**
Software Engineer Intern, Infrastructure   *Remote*
- Working with **AWS, Kubernetes, and Crossplane** to automate deployments and manage cloud infrastructure.
- Building an **Internal Developer Platform** to automate **Kubernetes cluster** deployments.

Noesis   **July 2025 – September 2025**
Software Engineer Intern   *Remote*
- Developed multiple **automation** scripts to make scheduled **queries** to an **ElasticSearch**, which eliminated the need for **manual input** and reduced the number of **queries** by **66.6%**.
- Engineered a **N8N Workflow** that generates **cybersecurity reports**, saving **2+ weeks** annually for **15+ engineers**.
- Built **Python/JavaScript** scripts that generate **adaptable graphs**, eliminating the **costs** of using **external APIs**.
- Implemented **multi-threading** in **N8N** reducing **runtime** by **67.2%**.

Junitec   **February 2025 – September 2025**
Software Engineer (Part-Time)   *Lisbon, Portugal*
- Worked alongside **top engineers** from my university at **Europe's Best Junior Enterprise**, which generated over **€200k in annual revenue** by building solutions for leading enterprises.
- Engineered a **full-stack inventory management** with a **React.js** interface and a **Go** backend, containerizing the entire project with **Docker**, which streamlined operations for a non-profit supporting **40+ abandoned children annually**.
- Developed **real-time** collaboration features using **WebSockets in Go**, reducing manual paperwork by **60%**.
- Wrote backend logic in **Go** for **SQLite integration**, streamlining the management of **20k+ stock items**.

Extra Curricular

IBM   **November 2024 – February 2025**
IBM Full-Stack JavaScript Developer Certificate **(174 hours)**   *Remote*
- Developed secure **RESTful APIs** in **Node.js/Express** connected to a **PostgreSQL** database.
- Designed, developed, and deployed **microservices** using **Docker** and **serverless architectures**.

University of Coimbra   **November 2023 – July 2024**
Participant, T@lentoDEI Program   *Coimbra, Portugal*
- Built a **Python** system to control a **Tello drone** using **real-time muscle signals**, reducing manual input by **100%**.
- Engineered a custom **boost feature**, increasing drone speed by **50%** on muscle-triggered commands.

Projects

JustAQuote   **Spring Boot | GraphQL | PostgreSQL | iOS Shortcut**
- Implemented a **GraphQL API** in **Spring Boot**, backed by **PostgreSQL**, to deliver a daily motivational quote.
- Integrated the **API** with an **iOS Shortcut**, enabling seamless access to the daily quote directly from an **iPhone**.

GemSolver | *Source Code* | *Demo Video*   **Node.js | Tesseract.js | Gemini API**
- Engineered a screenshot-to-answer tool with **Tesseract.js** and the **Gemini API**, reducing searching time by **75%**.
- Processed **200+ screenshots** in one semester, automating my study workflow and contributing to a **top 1% grade**.

Technical Skills

Languages: Python, Java, Go/Golang, SQL, TypeScript/JavaScript, N8N, HTML/CSS, C.

Libraries/Frameworks: Spring Boot, Spring Data JPA, PostgreSQL, SQLite, Node.js, React.js.

Developer Tools: AWS, Kubernetes, Crossplane, ArgoCD, Git, Docker, Postman, Neovim, Unix.

Certifications/Awards: Aws Cloud Essentials, IBM Full-Stack JavaScript Developer, City's Best High School Student.