

# AFONSO MANATA

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## Education

### Instituto Superior Técnico

*Bachelor of Computer Science and Engineering*

**Expected Graduation: May 2027**

*Lisbon, Portugal*

## Work Experience

### Promptly Health

**September 2025 – Present**

*Site Reliability Engineer Intern*

*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 – Present**

*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, Git, Docker, Postman, Neovim, Unix.

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