Julia Serrano Arrese

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EDUCATION

Universidad Politécnica de Madrid Madrid, Spain
Bachelor of Engineering - BE, Computer Engineering September 2020 - June 2024

WORK EXPERIENCE

Ericsson Madrid, Spain
Software Developer Intern July 2023 - June 2024

- Developed a Go library that consumes events from Kafka, integrated it into existing microservice
- Conducted benchmarks against legacy library using Grafana to demonstrate improved efficiency and scalability.
- Collaborated with team members on daily assignments to follow the company's workflow, gaining hands-on experience in Git, Kubernetes and code review processes.

PROJECT EXPERIENCE

Scraping Real Estate Properties Python, SQLite, Flask, HTML, CSS

- Created a web scraping tool to extract data from the Fotocasa platform's API endpoints, efficiently gathering property listings for analysis.
- Stored and managed the scraped data in a SQLite database, designing the schema to optimize data retrieval and reporting.
- Designed a web interface using Flask, HTML and CSS to display properties, focusing on a clean, responsive user experience.

Social Network RESTful Service Java, JAX-RS, Tomcat, REST, JSON/XML

- Designed a RESTful API for a simplified social network service emulating platforms like Facebook.
- Implemented operations for a RESTful API using Eclipse and Tomcat, integrating a robust SQL database for enhanced data management and optimized querying.
- Documented the API using Swagger to provide an interactive interface for real-time testing and to ensure clear, structured API endpoints for future client-side development.

Minishell C, Unix System Calls, Process Management, Signal Handling, Redirection

- Developed a lightweight command-line shell to interpret user commands.
- Enabled command execution, signal handling, input/output redirection, and pipelining, along with background task management, to emulate a robust Unix shell environment.

CERTIFICATIONS

Golang Development Certification
Fundación Universidad Carlos III de Madrid September 2023 - October 2023

AWS Academy Graduate - AWS Academy Cloud Foundations
Amazon Web Services (AWS) January 2024

Front-End Web UI Framework and Tools: Bootstrap 4
The Hong Kong University of Science and Technology February 2021

SKILLS & LANGUAGES

Skills: Backend (Java, Python, Go, C) | DevOps & Tools (Kubernetes, Docker, Git) | OS (Linux, Windows) | Databases (MySQL, SQLite), Cloud (AWS - EC2, RDS, S3, VPC, ELB) | Documentation (UML Diagrams, Markdown, LaTeX)
Languages: Spanish (Native), English (Advanced)