Manuel Segimón Plana

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Education

Boston University College of Engineering   Boston, MA | Expected May 2024
- Bachelor of Science in Computer Engineering, with a concentration in Technical Innovation
- GPA: 3.7
- Dean's List Fall 2021 | Spring 2022 | Fall 2022

International College Spain (International Bachelorette)   Madrid, Spain | 2014 – 2020

Experience

Software Development Engineering Intern | Amazon   Seattle, WA | May – August 2023
- Designed and implemented a system to log and display client-side metrics recorded in Amazon's RSU management platform.
- Implemented into the existing React.js UI of the platform, and the back end was implemented using API Gateway and Lambda AWS services.

Teaching Assistant | Boston University College of Engineering   Boston, MA | January – December 2022
- Taught Introduction to Software Engineering (ENG EC 327). Led a Lab Section with a Lecture and Office Hours.

Back End Software Engineering Intern | The Cocktail   Madrid, Spain | May – July 2022
- Worked on developing and deploying APIs used by El Corte Ingles Seguros for quoting insurance prices.
- Built APIs in Java environment using Groovy and Maven for the build tool.
- Spring Boot and the Swagger API were used for testing.

Junior Programmer | Constellation Consulting SL   Madrid, Spain | March – July 2020
- Developed a Python program to analyze recordings for call centers to check if employees followed the script.
- Trained IBMs Watson to analyze sentences parsed from AWS Transcribe to detect the part of the script each sentence said by the agent was from.

Data Analytics Intern | The Cocktail   Madrid, Spain | June 2017
- Analyzed users' purchasing habits based on marketing data from clients.
- Researched and developed predictions in R based on analysis of data.

Independent Strategic Consultant | FinanceMarket.es   Madrid, Spain | December 2020 – August 2021
- User experience design consulting and API research.

Skills

- C/C++, JavaScript, React, PHP, CSS, HTML, Java, Groovy, Python, MATLAB, Verilog, TypeScript
- AWS, Data Analysis, SQL, IBM Watson API, Maven, Spring Boot, Swagger API
- Bilingual in English and Spanish

Projects

Hardware Password Manager
- A stand-alone hardware password manager is plugged between a keyboard and a computer.
- Programmed in C++ and Arduino to auto-hash a simple password input and pass the hash to the computer.

Robotic Hand
- Built and designed a robotic hand capable of picking up objects. Modeled components in Fusion 360.
- Programmed closing motion activation with Arduino based on an electromyography sensor reading.

ZeroSimple.net (Personal Project)
- Designed front end with HTML, JavaScript, and CSS. Programmed back end with JavaScript, PHP, and SQL.

Additional Projects: Multiplayer MySQL Tic-tac-toe, Minimax Tic-tac-toe, Social Forum, Chat Bot, Robotic Bartender, Chat Application, misc. web-based projects

Leadership and Service

Organizer and Instructor of Arduino and Electronics Class (Olvidados ONG)
Volunteering in Tanzania Teaching Sustainable Farming