

Available from May to December 2021

Juan Martos

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## Education

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Northeastern University, Boston, MA

May 2023

**BS in Computer Engineering and Computer Science**

**GPA 3.72 / 4.0, Dean's List for every semester**

**Relevant Coursework:** Object-Oriented Design, Computer Systems, Systems Security, Embedded Design, Fundamentals of Networks, Algorithms and Data, Fundamentals of Digital Design

## Skills

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**Languages:** Python, C, JavaScript, Java, Bash, Assembly, HTML/CSS

**Tools:** Hapi.js, Docker, Git, Pandas, Selenium, Flask, Elasticsearch, Ansible

## Work Experience

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**Server Administrator, International University of La Rioja, Madrid, Spain**

January – June 2020

- Pioneered a self-learning Python software that detects server errors by periodically analyzing millions of HTTP responses and requests. Considerably improved time for server errors to be detected and fixed.
- Programmed a messaging bot and interface that reports detected server errors to the user. Streamlined the error detection process by eliminating the need to manually look through the logs.
- Automated LAMP stack installations and configurations using Ansible.

**Cleaning Department Management, Fuengirola Beach Hotel, Malaga, Spain**

July – August 2017

- Managed the distribution of cleaning supplies for 300 rooms.

## Projects

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**Software Developer for startup Rentmate**

November 2020 – Present

- Developing a hapi.js framework for Rentmate, an online platform to rent properties with reduced broker's fees that also facilitates finding roommates.
- Programmed Node.js backend and used Docker to containerize the MySQL database.
- Planning to develop frontend using React.js.

**TripAdvisor and Booking.com Web Scraper**

February – April 2020

- Developed a Selenium scraper in Python capable of scraping and analyzing millions of hotel names, prices and ratings from TripAdvisor and Booking.com.
- Implemented a Flask framework website that displays a graphical analysis of the scraped data.

**Remote Controlled Robot Arm**

October – December 2019

- Programmed FPGA to control multiple Servomotors in a robotic arm using Simulink and integrated a Bluetooth Wii remote using C++. Arm could throw objects and shake hands through the Wii remote.

## Extracurricular

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- Rugby Club, Robotics Club, Volunteering, Cycling, Skiing