

# ALONSO RIOS GUERRA

COMPUTER ENGINEERING STUDENT



## CONTACT

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## SKILLS

### Technical

- Programming Languages:  
Python, C, C++, JavaScript, R, RISCv, Assembly
- Web Development: HTML, CSS, Node.js
- Databases: SQL, Excel
- Version Control: GitHub
- Linux Proficiency
- Automation and Integration  
with n8n

### Soft

- Teamwork
- Creativity
- Critical thinking and problem solving
- Effective communication
- Soft skills techniques

## LANGUAGES

- Spanish (Native)
- English (Level B2)

## AWARDS

- Award for highest EBAU grades, Luyferivas, 2022



## PROFILE

Fourth-year Computer Engineering student with strong knowledge in web development, data structures, object-oriented programming, distributed systems, and machine learning, among other areas. Competitive and ambitious individual with a high level of responsibility and commitment. Lover of sports and team video gaming. Passionate about building technological solutions that solve real-world problems.



## HIGHLIGHTED PROJECTS

### Employee Attrition Prediction Model

Technologies: Python, scikit-learn, pandas, matplotlib.

- Used supervised learning algorithms (KNN, decision trees, and SVM) to predict the probability of employee attrition.
- Conducted a comparative analysis of models based on accuracy and efficiency.

### Distributed File Publishing and Download Application

Technologies: Python, C, Sockets, WebService, RPC, concurrency.

- Developed a concurrent server in C to handle multiple Python client connections simultaneously.
- Deployed an RPC server that logged all actions.
- Designed a peer-to-peer system to share files among clients without going through a central server.
- Deployed a web service to query date and time.

### MyHomie! - Home Automation Assistant

Technologies: Node.js, JavaScript, HTML, CSS, REST APIs, Socket.IO.

- Developed a web interface connected to a Node.js backend.
- Integrated gesture and voice command recognition from mobile devices as primary interaction methods.
- Utilized various APIs to complete the application.



## EDUCATION

### Bachelor's Degree in Computer Engineering

2022 - Present

Carlos III University of Madrid

### Technological Baccalaureate

2020 - 2022

Luyferivas