

Eric Macià

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Education

La Salle BCN - Universitat Ramón Llull | *Barcelona, Spain*

September 2018 - July 2024

Double Degree in International Computer Engineering and Management of Business & Technology

- Leadership / Activities: Founder and President of LSRT (La Salle Racing Team), member of the La Salle Algorithmics Club, member of the Technova Business Club, Excellence Scholarship.
- Theses (Business Faculty and Engineering Faculty):
 - *Hermes: A Rally Raid Focused Race Management System.*
 - *Hermes: Architectural Design and Analysis for a Scalable Real-Time Race Management System.*(Grade: Honors) 🔗

Experience

ClearPeaks | *Barcelona, Spain*

Full Stack Engineer

July 2024 - present

- Architected and implemented the integration of a conversational search for company documents using Azure AI and Information Retrieval models. 🔗
- Designed and created a Flutter mobile app to view and monitor business intelligence KPIs and dashboards from multiple datasources currently in production and used daily by government executives.

Junior Full Stack Engineer

July 2023 - June 2024

- Developed and maintained a dynamic platform of business intelligence visualization combining different projects using Angular, Java Spring Boot, C# and Python. ([Observation Deck](#))
- Conducted design sessions to architect new features, focusing on data polling protocols and integration with PowerBI data sources, ensuring optimal software and system architecture design.
- Conducted thorough code reviews and implemented robust testing procedures to uphold clean code principles, enhancing software quality, maintainability, and performance.

Relevant Projects

Hermes: Architectural Design and Analysis for a Scalable Real-Time Race Management System

Angular, NodeJS, Docker, Kubernetes, EMQX, MongoDB

- Architected and designed a race management system that scales dynamically based on node performance and demand. [🔗](#)
 - Developed and tested a proof of concept designed to handle 200.000+ position updates per second using MQTT.
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Skills

- **Languages:** Python, Java, C/C++, JavaScript, TypeScript, Dart
- **Tools & Frameworks:** Angular, Flask, Django, Java Spring Boot, REST APIs, GraphQL, Git, Flutter.
- **Cloud & DevOps:** Docker, Kubernetes, Azure AI
- **Data Management:** MongoDB, PostgreSQL, SQL, Neo4J (Graph DB), Firebase
- **Languages:** Catalan (Native), Spanish (Native), English (Fluent)