

CARLOS MATA CARRILLO

Madrid, Spain

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EDUCATION

Universidad de Granada (UGR)

Double Bachelor Degree in Computer Engineering and Business Administration.

Granada, Spain

Sept 2020 - June 2025

GPA: 8.0/10

- Selected as top 40 academic records 2024-2025 (Cátedra Talento y Liderazgo)

- Honours:** Data Structures, Financial Operations Analysis

+ Erasmus Program at Brno University of Technology (BUT)

+ SICUE Program at Universidad Politécnica de Madrid (UPM)

Northwest High School

Secondary Education Applied to Sciences (Exchange Student Program)

St. Louis, Missouri, U.S.A.

July 2017 – May 2018

GPA: 9.3/10

PROFESSIONAL EXPERIENCE

HAT.tec

Software Developer

Munich, Germany.

July 2024 – Present.

- Deployed mission-critical UAV software for the German Armed Forces (Bundeswehr) with 100% success.
- Optimized C++/ROS 2 real-time processing, reducing telemetry latency by ~20% for autonomous navigation.
- Engineered high-performance Qt GUIs to transform raw sensor data into actionable visual intelligence.
- Authored a strategic ROS 2 technical framework (Thesis 9.8/10) adopted by developers in the company.

Physics & Programming Private Tutor

Granada, Spain 2021.

PERSONAL PROJECTS

FlySmart

Flight Price Comparison Tool: <https://github.com/orgs/FlySmartProject/repositories>

- Built a simple “Skyscanner-style” app for domestic flights.
- Combined Amadeus API, a custom Python scraper and a local database behind a Java backend and a JavaScript front-end.
- Normalized data from all providers to let users search by route/date and compare prices, airlines and schedules in one place.

BeerSp

Social Beer Rating Web App: <https://github.com/orgs/BeerSpProject/repositories>

- Full-stack app (Spring Boot, MySQL, React/TS).
- REST API design, scalable DB schema and responsive UI with search, filters and rankings.

LANGUAGES AND SKILLS

- Programming & Frameworks:** C++ (Modern 14/17), Python (Pandas/NumPy), ROS 2, Qt, Java, SQL.
- DevOps & Tools:** Docker, Kubernetes, Podman, Git, Gitlab, Jira, Confluence, Linux/Unix.
- Business & Analytics:** Financial Analysis, Agile/Scrum Methodologies, Data-Driven Decision Making.
- Languages:** Spanish (Native), English (C1/Advanced), French (B2), German (A1).
- Data & Cloud Certifications:** Azure Databricks & Spark for Data Engineers (2025), AWS Cloud foundations certificate.

VOLUNTEER WORK

- Residencia Fray Leopoldo:** Helped in senior residence (Granada, Spain, Sept 2018 – Dec 2018).
- CEIP Santa Juliana:** Provided mentorship to children with learning difficulties (Granada, Spain, Jan 2019 – June 2019).

ADDITIONAL INFORMATION

- International summer programs:** Charterhouse School, Talbot Heath School, 2012 & 2014
- Wasting Time:** Collaborated with travel agency as a public relations representative, sales associate and travel staff.