

# Jack Griffiths Rico

Computer Science Graduate — Fluent in English, Spanish & Catalan

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## SUMMARY

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Software Engineer graduate with a Bachelor's Degree in Computer Science and hands-on experience in the MERN stack (React.js, Node.js, Express.js), complemented by competence in C, C++ and Java. Expertise includes full-cycle development, independent deployment of projects using Docker and NGINX, and leveraging Oracle Cloud VPS for scalable hosting. Seeking a Software Engineer role to apply proven skills in application development, cloud operations, and continuous integration to drive innovative software solutions.

## EDUCATION

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- **Universitat Politècnica de Catalunya**

*Bachelor's Degree in Computer Science*

*Barcelona, Spain*

*Sep. 2020 - Jun. 2024*

- **Oak House School**

*Secondary & Sixth Form; Score: 10.820/14*

*Barcelona, Spain*

*Sep. 2014 - Jun. 2020*

## WORK EXPERIENCE

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- **Ernst & Young Spain**

*SAP Basis Intern*

*Barcelona, Spain*

*Nov. 2023 - Jun. 2024*

- Performed daily system health checks, updates, and maintenance across 20+ SAP client environments, improving uptime and reliability.
- Supported system upgrades, transport management, and user administration within enterprise SAP landscapes.
- Collaborated with 15+ consultants worldwide, bridging communication between technical and business teams.
- Praised for maintaining accurate documentation and consistently ensuring stable system operations.

- **SALBCN**

*International Football Tournament Coordinator*

*Barcelona, Spain*

*Oct. 2022 - Jun. 2025*

- Coordinated logistics for 100+ international youth matches, ensuring smooth and on-time operations.
- Managed up to 20 teams per tournament day, overseeing field readiness, referees, and scheduling.
- Streamlined processes to minimize downtime and improve communication between staff and officials.
- Recognized for strong organization, leadership, and composure under pressure.

- **Oak House School**

*Children's Summer School Monitor*

*Barcelona, Spain*

*Jun. 2021 - Aug. 2021*

- Supervised and led daily activities for 20+ children aged 2–5, ensuring a safe and engaging learning environment.
- Contributed to smooth classroom routines and student participation through creative activities.
- Commended by senior staff for enthusiasm, responsibility, and positive student relationships.

*Reference letters available upon request for Ernst & Young Spain and SALBCN positions.*

## PROJECTS & PUBLICATIONS

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- **cs2analyzer.com**

*Full-Stack Developer*

*Barcelona, Spain*

*Jul. 2025 – Present*

- Built and deployed a full-stack web application using React.js, Node.js, and Express.js to analyze CS2 skin patterns for 1,500+ concurrent users.
- Designed a scalable API and optimized database queries, reducing response times by 40%; deployed on Oracle Cloud VPS with NGINX.

- **LoRa Mesh Network Research**

*Bachelor's Thesis (IEEE ISCC 2025)*

*Barcelona, Spain*

*Feb. 2024 – Jun. 2024*

- Developed a full-stack IoT monitoring system for 10+ LoRa mesh nodes using C++, React.js, and REST APIs.
- Implemented a Dockerized analytics stack with Grafana and InfluxDB; published results at IEEE ISCC 2025.

- **Authentication System**

*Full-Stack Developer*

*Brighton, UK*

*Oct. 2025 – Nov. 2025*

- Built a JWT and session-based authentication from scratch, including OAuth integration using MongoDB, Express.js, React.js, and Node.js.

- **NFT Analytics Platform**

*Full-Stack Developer*

*Brighton, UK*

*Nov. 2025 – Dec. 2025*

- Developed a real-time NFT analytics platform using Ruby on Rails, Sidekiq, and ClickHouse.
- Implemented background workers to fetch OpenSea events and deliver real-time analytics dashboards.

## KEY SKILLS

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- **Analytical & Creative Thinking:** Analysed SAP system performance and designed scripts to automate routine tasks during EY internship, applying creative solutions to improve efficiency and reduce errors.
- **Flexibility & Agility:** Adapted quickly to new tools and enterprise procedures during EY internship while balancing university projects in a fast-paced environment.
- **Technological Literacy:** Strong command of modern technologies through full-stack projects and SAP experience; quickly learns and applies new frameworks or systems.

## TECH STACK

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- **Languages:** C, C++, Java, JS, TS
- **Web:** HTML5, CSS3, React.js, Node.js, Express.js, REST APIs, Vite
- **Databases:** PostgreSQL, MongoDB
- **DevOps & Tools:** Docker, NGINX, Linux, Git, Oracle Cloud