Hugo Cecilia Hellín

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Personal Statement

Software engineer trained in Spain and the UK, with a full-stack background across backend, frontend and databases. Interested in systems where reliability and data integrity matter, and in problems with a quantitative side. Based in Madrid and looking for a graduate role on a strong engineering team.

Education

York St John University — York, UK
BSc (Hons) Software Engineering, First Class Honours (highest UK classification) — Sep 2025 – Jun 2026

- Final-year (Level 6) direct entry; Years 1–2 recognized from the CFGS DAW below.
- Coursework: Cloud Computing Security and Compliance, Software and Web Security, Software Testing, Internet of Things.

Instituto Nebrija — Madrid, Spain
Higher Technician Diploma in Web Application Development (CFGS DAW, EQF Level 5) — Sep 2023 – Jun 2025

- Final grade: 8.23/10

Experience

Getecom (telecommunications) — Madrid, Spain
Software Engineering Intern — Feb 2025 – Jun 2025

- Built internal network-monitoring dashboards (Python, Django, React) that gave the technical team a single view of network equipment status and metrics.
- Developed and optimized the Django REST APIs serving network telemetry to these dashboards.
- Wrote unit and integration tests for the Django APIs to keep releases to staging stable.

Projects

Asterion One: Satellite Operations Simulator (BSc Dissertation, 2025–2026)
Python, NumPy, Node.js, WebSockets, React, PostgreSQL, Docker

- Built a desk-scale satellite operations simulator in four tiers: Python flight software, a Node.js and Express ground segment on PostgreSQL, a React operator console and a NumPy digital twin, with pytest and Jest suites in GitHub Actions CI.
- Designed DTN-style store-and-forward telemetry over WebSockets: a disk-backed queue with sequence IDs and cumulative ACKs replays messages buffered during link outages; fault-injection tests recorded zero lost or duplicated messages.
- Implemented FDIR as a BOOT/NOMINAL/SAFE/CRITICAL state machine (SAFE recovery and CRITICAL escalation verified on simulated restart cycles) and a first-order RC thermal model with 15+ min alert lead time in gate tests.

Padeliox: Padel Court Booking Platform (CFGS Final Project, solo, 2025)
Node.js, Express, React, MySQL, Stripe

- Developed a REST API in Node.js and Express (MVC, Sequelize, MySQL 8.0) covering users, courts, bookings and payments.
- Integrated Stripe Checkout into a responsive React frontend; the API creates a booking only after verifying the paid session server-side, and repeat confirmations return the existing booking.
- Implemented JWT access and refresh tokens (refresh tokens stored server-side and revoked on logout), bcrypt password hashing, and overlap checks that reject conflicting bookings with HTTP 409.

Technical Skills

Languages: Java, Python, Go, C/C++, SQL, PHP, JavaScript/TypeScript
Frameworks: Vue, Spring Boot, Django, Node.js, React, Angular, .NET
Cloud & Tools: Azure, Git, Linux, Docker, MySQL, PostgreSQL, MongoDB, PyTest, LaTeX
Spoken Languages: Spanish (Native), English (Full professional proficiency; BSc completed in the UK)