

Software Engineer · TypeScript · NodeJS · React · Java  
See more projects on my [Portfolio](#) or [Github](#)

## EXPERIENCE

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|---|-------------------------|---------------------------|
| <b>Web3 Software Engineer - Backend</b> | <b>Elixir Games Inc</b> | <b>Apr 2024 - Present</b> |
|---|-------------------------|---------------------------|
- Architected a Game Version Control Service using **TypeScript** and **NestJS (Node.js)** that manages patches and binary merges for 150+ game studios, reducing storage costs by over 70% and improving user download times by 10x.
  - Built a social media farming service within a gamified quest system, processing 1.9M+ messages/mo through **RabbitMQ**.
  - Implemented **Web3 wallet abstraction** for both **EVM** and **Solana**, enabling a seamless onboarding experience for 300k+ users.
  - Worked on the purchase flow and the accounting system for buying crypto assets and participating in launchpads, processing over \$1.2M, collaborating closely with Frontend and DevOps teams.
  - Developed blockchain integration logic (transfer, stake, unstake, claim) for **EVM** and **Solana**, supporting both abstracted and external wallets using **@solana/web3js** and **Viem**.
  - Implemented an ORM-agnostic filter, ordering and pagination system for **Postgres (Prisma)** and **MongoDB (Mongoose)** reducing query time by an average of 40%.
  - Researched and developed multiple **proofs of concept**, many of which were integrated into our application, enabling the adoption of new technologies in our stack.
  - Used **Redis** to implement a highly-available and fast fiat-crypto exchange rates service.
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| <b>Software Engineer - Fullstack</b> | <b>Vodafone Spain</b> | <b>Sept 2022 – Apr 2024</b> |
|--------------------------------------|-----------------------|-----------------------------|
- Integrated end-to-end rich media support into a **push** and **email** notification service, using **Angular** and **Kafka** to handle 30M+ communications/mo.
  - Planned and migrated the monolithic **Java (Spring)** application to a **microservices architecture** with a multi-repository setup, significantly improving maintainability and developer experience.
  - Analyzed and executed a critical migration of **Java, Spring, and Couchbase** dependencies to actively supported versions, rewriting significant parts of the services to maintain compatibility.
  - Analyzed compliance reports and refactored codebase to meet 2024 GDPR regulations.
  - Evangelized blockchain concepts to a 100+ member division through a live **Solidity** demo.
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|---|---------------|-----------------------------|
| <b>Lead Software Engineer &amp; Project Manager</b> | <b>Joined</b> | <b>Feb 2022 – Sept 2022</b> |
|---|---------------|-----------------------------|
- Designed and developed a website for a blockchain consultancy startup (with clients including Real Betis and Polygon) using **NextJS, TypeScript, ReactJS** and **Firebase** as a documental Database.
  - Conducted regular meetings with stakeholders to gather requirements and provide project updates, ensuring alignment with the client's vision and goals.

## PERSONAL PROJECTS

### DocTrack

- Decentralized application (**Solidity, React, JavaScript**) for document delivery, tracking, and management, enabling granular data sharing, real-time status visibility, and on-chain verifiable enterprise workflows.

## EDUCATION

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|-----------------------|------------------------------|--------------------|
| <b>Seville, Spain</b> | <b>University of Seville</b> | <b>2018 - 2022</b> |
|-----------------------|------------------------------|--------------------|
- **Major:** Software Engineering. End of Studies **Thesis Grade: 9.4/10 (A+)**
  - **Best Thesis award** of Software engineering at University of Seville.
  - **Coursework:** Algorithms & Data Structures, DevOps, Networks, Agile Development, Python, Advanced Java.
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|--------------------------|----------------------|--------------------|
| <b>Konstanz, Germany</b> | <b>HTWG KONSTANZ</b> | <b>2021 - 2022</b> |
|--------------------------|----------------------|--------------------|
- **Major:** Computer Science – Erasmus+ Program.
  - **Coursework:** Blockchain, IoT, Cybersecurity, Computer graphics, React.

## AWARDS & QUALIFICATIONS

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- **Conflux & U-Hack Hackathon 2024** - 1<sup>st</sup> place.
- **Vottun x DEXTools x Rootstock Hackathon 2024** - Most innovative solution winner.
- **BBVA Open Innovation Hackathon 2022** - Microsoft technological challenge winner.
- **Binance X Heretics Hackathon** - 2<sup>nd</sup> place.
- **Hunger4Innovation Hackathon 2022** - Hotelbeds challenge winner.
- **Certifications:** Fullstack Developer (Simplilearn) 300+ hours. Project manager by Google 200+ hours. Cloud computing (AWS). Online marketing (FEDEME).
- Competed at Thales mathematical Olympiad.
- **Languages:** Spanish (Native), English (C1 level), German (B1 level).
- **Interests:** Team sports and fitness. Hackathons, Competitive gaming.