Josue Torres Sibaja

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Computer Science Graduating Senior (Software Engineering emphasis) at the University of Costa Rica (UCR). Full-stack and systems developer building scalable, reliable software, with strong CS foundations and hands-on experience with agentic AI workflows. Seeking full-time entry-level and junior Software Engineering roles; available immediately.

EDUCATION

University of Costa Rica (UCR) Mar 2023 – Dec 2026
B.Sc. in Computer Science, Software Engineering emphasis (coursework completed; degree expected Apr 2027)
Relevant coursework: Advanced Databases, Cybersecurity, Web Development, HCI, Operating Systems.

National University of Costa Rica (UNA) — English Program Feb 2019 – Aug 2021
13 levels (520 hours) · English proficiency B2–C1 · Spanish native

TECHNICAL SKILLS

Languages: Python, C++, C, C#, Java, TypeScript, JavaScript, SQL, HTML/CSS.
Frameworks & Libraries: Next.js, React, Node.js, Flask, ASP.NET Core, Prisma, Tailwind CSS.
Data & Infrastructure: PostgreSQL, SQL Server, Redis, MinIO, Firebase, Docker, GitHub Actions, Linux, Playwright.
Applied AI: Claude Code, GitHub Copilot, Google Antigravity, multi-agent systems, prompt & context engineering.
Specialized: Applied cryptography (PKI, X.509, RFC 3161, OCSP), Pthreads, OpenMP, TCP/IP sockets.
Practices: Data structures & algorithms, OOP, SOLID, REST APIs, CI/CD, Agile/Scrum.

EXPERIENCE

Information Technology Support Assistant Aug 2026 – Dec 2026
Orientation Office, University of Costa Rica (UCR) · San José, Costa Rica

- Diagnosed and upgraded 50+ institutional workstations (HDD→SSD migration), reducing boot times by ∼60%.
- Automated Windows imaging and disk cloning, cutting per-machine setup from ∼2 hrs to under 20 min.
- Maintained academic WordPress sites via secure remote hosts, supporting 99%+ uptime during enrollment periods.

PROJECTS

CS Interactive Workshop [Live App] | [GitHub] Sep 2024 – Present

- Built an open-access platform for **300+ CS students** in high-attrition courses: 12 stations with live simulations of algorithms, concurrency, TCP sockets and SQL, backed by native C/C++ engines.
- Shipped with **1,382 automated tests** in GitHub Actions CI/CD, Firestore progress sync and a bilingual UI; built with agentic AI workflows (Claude Code), cutting dev time by an estimated ∼50%.

Stack: *C11, C++17, Pthreads, OpenMP, BSD Sockets, JavaScript, Firebase Hosting, Cloud Firestore, GitHub Actions*

PAdES-LTA Renewer — Cryptographic Preservation Engine [GitHub] Oct 2026 – Present

- Built a Python/Flask engine that renews signed PDFs to PAdES-B-LTA (ETSI EN 319 142-1) with OCSP/CRL data and Central Bank RFC 3161 timestamps, keeping signatures verifiable after certificates expire.
- Built a PKI inspector (X.509 chains, revocation checks) and a multi-file web app for long-lived records such as **contracts, diplomas, notarial deeds and financial documents**; pytest-covered.

Stack: *Python, Flask, cryptography, asn1crypto, pypdf, RFC 3161, X.509, OCSP/CRL, pytest*

LASCE — Institutional Scientific Web Platform [Live App] | [GitHub] Aug 2026 – Dec 2026

- Delivered a production full-stack platform for UCR's Solar Astrophysics and Space Weather Laboratory, serving **50+ researchers and students** with a public portal and an admin CMS.
- Implemented Prisma transactions, MinIO asset pipelines and BullMQ job queues for reliable background processing, with accessible (WCAG) UI components and Playwright E2E coverage on critical flows.

Stack: *Next.js, React, TypeScript, Tailwind CSS, Prisma, PostgreSQL, Redis, BullMQ, MinIO, Python, Playwright*

Virtual Microscope Administration Panel [GitHub] Mar 2026 – Jul 2026

- Engineered the C#/.NET data layer of a microscopy desktop platform, replacing error-prone spreadsheets for **150+ biology students and instructors** across UCR campuses.
- Designed a hierarchical specimen schema (Groups → Boxes → Slides) for structured querying of high-resolution assets, cutting lookup time from minutes to seconds, with offline-capable data persistence on lab workstations.

Stack: *C#, ASP.NET Core, PostgreSQL, JavaScript, HTML/CSS, Desktop Architecture, Visual Studio*

ThemePark UCR — Virtual University Simulation Aug 2025 – Dec 2025

- Built C#/ASP.NET Core REST APIs and SQL Server data services for a decoupled Unity virtual-campus simulation (buildings, learning spaces, interactive objects), working in Scrum.

Stack: *C#, ASP.NET Core, REST APIs, SQL Server, Unity, Scrum*