Cosme Boisset

Software Engineer | Brooklyn, NY

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Technical Skills

Languages: TypeScript, JavaScript, Python, Java, SQL, C, x86 assembly
Frontend & Mobile: React, React Native, Expo, HTML, CSS, Tailwind CSS, TanStack Query
Backend & Infrastructure: Django, RESTful APIs, Docker, Docker Compose, Nginx, Linux, Git
AI: Claude API, LLM integration
Security: Ghidra, Volatility3, The Sleuth Kit, Wireshark, GDB
Spoken: French (native), English (native)

Experience

NSF REU Fellow – Digital Forensics May 2026 – August 2026
SAFE Lab, Virginia Commonwealth University *Richmond, VA*

- Reverse-engineered a Windows-based clinical medical device in Ghidra, identified a credential storage vulnerability, and recovered administrator-level access
- Recovered records of remote-technician diagnostic requests through static analysis of a 128GB NTFS disk image, then reused the request mechanism to authenticate as a technician, producing 4 verified sign-in events as proof of concept
- Discovered an unencrypted patient database and de-identification failures in DICOM data persisting independently of standard sanitization and deletion processes

Web App Developer July 2025 – Jan 2026
GulfSCEI Research Center, University of New Orleans *New Orleans, LA*

- Rebuilt the Pipewatch-AI frontend in React, TypeScript, and Tailwind CSS, replacing a Redux data layer with TanStack Query and cutting page load time by roughly 50%
- Architected a containerized multiservice environment (Docker Compose) spanning frontend, REST backend, ML inference services, and an Nginx reverse proxy
- Refactored Django REST API endpoints to decouple the frontend ahead of a backend migration to Ruby on Rails

Freelance Web Developer Dec 2021 – June 2024
Self-Employed *Remote*

- Shipped React web and mobile applications across multiple client engagements, owning the full project lifecycle from scoping to production deployment
- Partnered with clients to define technical requirements, evaluate solutions, and align on delivery timelines
- Cobbl – Photo and video sharing app; sole frontend engineer for 18 months, built the full React Native/Expo UI from scratch including media capture, feed rendering, and all core user flows, integrated against a Python backend API

Projects

GraspIt | *React, Vite, Tailwind, Django, Claude API* BrainJam Hackathon 2026, UNO – 1st Place, $2,000

- Integrated the Claude API into a real-time audio transcription pipeline that generates structured notes and flashcards from live lectures
- Built the full stack (React frontend, Django REST backend) in 48 hours; selected for the startupNOLA incubator

HasDID.io | *Bootstrap, Chia Blockchain* FALLIN Hackathon 2023 – 1st Place, $1,000

- Built a decentralized identity web app on the Chia blockchain with a 3-person remote team using a branch-based Git workflow

Education

LSU New Orleans Expected December 2026
B.S. Computer Science | GPA: 3.7/4.0 | Major GPA: 3.9/4.0 *New Orleans, LA*

- **Relevant Coursework:** Software Design and Development I & II, Data Structures, Analysis of Algorithms, Data Models and Database Systems, Systems Programming, Operating Systems, Computer Networks, Programming Language Structure, Cryptography

Publications & Presentations

M. S. Yaqub, **C. Boisset**, W. Jo, I. Ahmed. "Unmanaged Persistence: Where Patient Data Lives and Dies on a Regulated Point-of-Care Ultrasound Device." *Submitted to DFRWS DFC Europe 2027*, Full Research Paper. (under review)

C. Boisset, M. S. Yaqub, W. Jo, I. Ahmed. "Beyond Volatile Memory: Non-Volatile Forensic Reconstruction of Authentication and PHI Exposure on a Point-of-Care Ultrasound Device." *Poster, DFRWS USA*, July 2026 (presenter).