Lucas Gerbasi

lucas.gerbasi1@gmail.com • +55 16 99226-1479 • github.com/lucasgerbasi • linkedin.com/in/lucas-gerbasi •
lucasgerbasi.github.io/Portfolio/

PROFESSIONAL SUMMARY

Software Developer with a focus on secure web application architecture and complex state management. Passionate about designing and building robust systems from the ground up, such as DeadDrop, a Zero-Knowledge file-sharing service with client-side encryption (React, Node.js), and LocalVault, a desktop password manager featuring modern cryptography.

FEATURED PROJECTS

LocalVault – Secure Desktop Password Manager | Electron, Node.js, Criptography | Case Study
- Architected and developed a zero-knowledge application, implementing modern cryptography (Argon2id, AES-256-GCM) with Node.js's native crypto module.
- Designed a secure Electron architecture by isolating processes (contextBridge, nodeIntegration: false) to mitigate attack vectors and protect user data.

DeadDrop – Zero-Knowledge File Sharing | React, Node.js, Web Crypto || Case Study
- Architected a full-stack E2EE web application with a Zero-Knowledge architecture, using the Web Crypto API for all client-side encryption.
- Deployed the application on free-tier platforms (GitHub Pages, Render) with CI/CD (GitHub Actions), ensuring zero infrastructure cost.

EXPERIENCE

Freelance   Feb 2022 - Present
Web Developer
- Designed and implemented the interface (Front-End) of customized solutions for clients, ensuring high performance, usability, and full responsiveness.
- Managed project autonomy, from UI/UX design to final delivery, focusing on modern technologies (React, TypeScript, JavaScript).

Instituto João de Barro   Feb 2023 - Dec 2023
Front-End Developer
- Led the front-end development of the organization's website using React, focusing on optimizing fundraising and delivering an accessible (WCAG) and responsive platform.

TECHNICAL SKILLS

Front-End: React, JavaScript (ES6+), TypeScript, HTML5, CSS3

Back-End & Outros: Node.js, Electron.js, Python, SQL

Conceitos: Software Architecture, Application Security, State Management, Cryptography

Ferramentas: Git, GitHub, VSCode, Prompt Engineering

EDUCATION

UNI-FACEF, Franca, São Paulo   2022 - 2027

Bachelor of Science in Computer Science
- Highest academic performance in 2022, with the top overall grade point average among students.
- Languages: Portuguese (Native), English (Fluent - Self-taught)