Emilio Heinzmann

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Senior Software Engineer with a **B.Sc. in Computer Science** and **7+ years of experience** working remotely in fast-paced environments. Beyond coding, I **mentor other engineers**, share my knowledge through **articles and videos**, and embrace the "**Learn in Public**" philosophy by sharing my personal projects on GitHub. With expertise in both **frontend and backend** development, I'm capable of owning deliverables **end-to-end** and quickly **adapting** to new contexts.

Experience

Full-stack Software Engineer at Cloudbeds – Remote
Jan 2025 – Present

- Delivered the Booking.com **bookings reconciliation flow**, enabling users to update booking information directly within the Cloudbeds platform, reducing **external dependencies**;
- Developed a **database migration rollback test pipeline**, preventing schema-breaking errors and ensuring smooth rollbacks during deployments;
- Built a **modular settings system** enabling properties to customize operational preferences, improving **feature adoption** and reducing **configuration-related support issues**;
- Fixed a complex, long-standing **out-of-memory error** in the booking ingestion flow, eliminating **dozens of daily DLQ alerts** and improving reliability for customers.

Senior Frontend Software Engineer at Cloudbeds – Remote
Jan 2023 – Dec 2024

- Optimized the frontend local development environment by reducing our Docker image size by **87%**, implementing a custom multi-platform image and an automated **CI/CD workflow**;
- Developed a **Chrome extension** to streamline **feature flag** management, reducing the time to toggle a local feature flag from **minutes to seconds**;
- Implemented the company's first **AI assistant**, achieving an **18%** deflection rate, an **84%** engagement rate, and a **10%** reduction in support tickets, with a CSAT score of **4.2**;
- Led the **Easy Onboarding** project, cutting property onboarding time from **weeks to days**. Developed **Playwright E2E tests** to cover critical flows, implemented **Lambda functions** for image uploads to **S3** and **Salesforce API authentication**, and created **workflows with GitHub Actions** for **testing**, **linting**, **building**, and **deploying** across multiple environments;
- Migrated legacy features from **Vue, Handlebars, and jQuery** to a more modern architecture based on **Micro-frontends, React, Chakra UI, and TanStack React Query**, ensuring adherence to best coding practices and maintaining robust **unit test coverage**;

Software Engineering Lead at CWI Software – Remote
Sep 2022 – Dec 2022

- Served as a **technical reference**, leading and supporting teams with **30+ engineers**;
- **Led the migration** of the frontend of **8 e-commerce platforms** to React, Next.js, TypeScript;
- Promoted the company's culture by delivering tech talks about **software development best practices**;
- Conducted **technical interviews** for Software Engineering roles;
- Improved frontend **performance** by implementing **caching** and **lazy loading**, raising the Lighthouse performance score from **30** to **80+**.

Software Engineer at CWI Software – Hybrid
Sep 2019 – Sep 2022

- **Led** a team of **3 React Native engineers** in developing a **marketplace application** for one of Brazil's largest fashion retailers, delivering it in **6 months with no critical bugs in production**;
- **Enhanced development processes** by implementing **CI/CD, unit testing**, and updating frontend technologies, reducing deployment time by over **15x**;
- Mentored and guided over **30 interns**, providing feedback and tracking their career progress;
- Acted as an instructor in a **React Native training program**, teaching the technology to **10 company employees**.

Software Engineer Intern at CWI Software – On-site   Sep 2018 – Aug 2019

During my internship period, I gained **hands-on experience** working with different technologies and teams, which played a crucial role in my **professional growth**. Initially, I participated in the **Crescer program**, an intensive training bootcamp focused on **frontend and backend** technologies, where I improved my **teamwork** and **communication skills** while working on a **full-stack application**. I also worked on web development using **JavaScript, React, Sass, and Redux**. Later, I transitioned to **React Native**, where I fixed bugs, developed features, and delivered production releases.

Scientific Initiation Scholarship at Universidade do Vale do Rio dos Sinos – On-site   Nov 2017 – Aug 2018

As a research assistant in **Computer Graphics** specializing in **facial recognition, motion detection, and tracking**, I developed **facial recognition** software using **OpenCV** and **Java**.

Beyond Work

YouTube Channel ☑ – Space where I **share a bit of what I have learned** throughout the years working as a **Software Engineer**. The goal is to help engineers ship features faster, improve their skills, and write cleaner, more maintainable code.

Full Cycle 3.0 Repositories ☑ – Collection of repositories containing **code snippets and detailed notes** from the **Full Cycle 3.0** course, providing hands-on insights into building **scalable** and **maintainable** applications.

SOS Pet ☑ – Paired with friends to develop **SOS Pet** during one of the biggest floods in southern Brazil, connecting rescued animals with temporary shelters. Built with **Next.js, React, TypeScript, Prisma, and PostgreSQL**, featuring a responsive UI with **Tailwind CSS** and passwordless login with **Resend**.

Publications

BRISKLY: A MODEL FOR FLASHCARD DIGITIZATION USING ARTIFICIAL INTELLIGENCE ☑ – Published in **RENOTE** in July 2025, the study explores the effectiveness of integrating **Artificial Intelligence** with the **flashcard methodology** and **spaced repetition** to enhance learner autonomy and **simplify deck creation and review**. **Briskly** is a model that uses Artificial Inteligence to automatically validate user responses and generate context-based flashcards. Results indicate that AI-powered, personalized flashcard generation **is effective in reducing barriers to system use** and shows promise as a tool for education and learning processes.

Education, Courses and Certifications

- **Full Cycle 3.0**, specialization in software development and architecture   Nov 2023 – Dec 2024
- **Do Bug ao Bounty**, specialization in ethical hacking, OSINT, and web security   Jun 2022 – Sep 2023
- **B.Sc. in Computer Science**, Graduated with Distinction at Unisinos, Brazil   Jan 2017 – Jun 2023
- **Theory and Tools of the Harvard Negotiation Project**, CMI Interser   Oct 2022 – Nov 2022

Skills

- **Languages & Frameworks**: JavaScript, TypeScript, React, Next.js, Node.js, PHP, Symfony
- **Frontend & UI Libraries**: Chakra UI, Tailwind CSS, StyledComponents, Redux, Zustand, Jotai, TanStack Query
- **Backend & DevOps**: Prisma, PostgreSQL, MySQL, REST APIs, AWS Lambda, Docker, GitHub Actions, CI/CD
- **Testing**: End-to-End Testing, Playwright, Unit Testing, Jest, Vitest
- **Tools & Platforms**: Git, GitHub, Jira, Railway, Resend, AWS, Vercel, Launch Darkly
- **Concepts & Practices**: Domain Driven Design, SOLID, Clean Code, Clean Architecture, Micro-frontend Architecture

Languages

- **Brazilian Portuguese** – Native proficiency
- **English** – Full professional proficiency
- **Spanish** – Elementary proficiency (currently taking private classes)