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Edoardo Galli
Computer Science Undergraduate

Education

2021–2026 **B.Sc. Information Science for Management**, *University of Bologna*
GPA: 28/30 – A hybrid Computer Science curriculum engaging with both software engineering and corporate management strategies.
○ **Relevant Coursework:** Software Engineering, Operating Systems, Algorithms & Data Structures, Information Systems, Web Technologies, Corporate Finance.

2017–2021 **International Baccalaureate (IB) Diploma**, *International School of Bologna*
Awarded IB Bilingual Diploma (English–Italian)

Project Experience

TypeScript, **Real-Time Collaborative Editor (sweng-notes)**, *University of Bologna*
React github.com/edoski/sweng-notes
○ Engineered a type-safe backend using **Convex**, using a custom **middleware factory** to inject RBAC policies into 50+ API endpoints.
○ Optimized React rendering performance by splitting global state into multiple distinct **Context scopes**, preventing re-render cascades.
○ Integrated **Liveblocks** and **Y.js** to synchronize ephemeral cursor presence and resolve concurrent document edits via CRDTs.

Java, **Multithreaded Client-Server Architecture (pubsub)**, *University of Bologna*
Concurrency github.com/edoski/pubsub
○ Built a raw TCP server using **CachedThreadPool** to dynamically scale worker threads based on client load.
○ Enforced thread safety using **ConcurrentHashMap** for state management and atomic **synchronized blocks** for message snapshotting.
○ Designed a custom Application Layer Protocol featuring an admin "Inspect Mode" that utilizes volatile flags to suspend client command processing in real-time.

PHP, SQL, **Crowdfunding Platform (bostarter)**, *University of Bologna*
Mongo github.com/edoski/bostarter
○ Architected a **Hybrid Persistence Layer** using **MySQL** (Stored Procedures) for transactional data and **MongoDB** for immutable audit logging.
○ Implemented a custom **EventPipeline** class to abstract input validation, execution flow, and error handling across action scripts.
○ Hardened security by strictly separating View logic from Business logic and enforcing **PDO** parameter binding.

Next.js, Tailwind **Personal Developer Portfolio**, *Personal Project*
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○ Developed a high-performance static site using **Next.js App Router** and React Server Components to minimize client-side hydration costs.
○ Engineered custom interactive UI components using **Framer Motion** and Tailwind CSS.
○ Integrated a Vercel CI/CD pipeline to automate production deployments.

Technical Skills

Languages Java, TypeScript, SQL, PHP, HTML5/CSS3
Frameworks Next.js, React, Tailwind CSS, JavaFX, Bootstrap
Tools & DB Git/GitHub, MySQL, MongoDB, Convex, Docker, Linux/Bash
Core Concepts OOP, Serverless Architecture, REST, Multithreading, MVC, CI/CD