Edoardo Ceccarelli

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Software Engineer with experience in backend and mobile development, now building MCP tooling and evaluations for AI coding agents. Core expertise in Go, PostgreSQL and cloud-native systems.

Experience

AI Engineering Contractor — **micro1 (Realm)** — **Aug 2026–Present**

- Built MCP services and reproducible Docker environments for coding agents to discover deployment state and policies, then implement repository-level fixes.
- Developed agent evaluations with reference solutions, regression tests and automated grading; used adversarial probes to expose incomplete fixes and strengthen security benchmarks.
- Analysed agent rollouts to calibrate task difficulty and tested authentication and trust boundaries while preserving legitimate functionality.

Senior Golang Engineer — **Cegeka** — **May 2024–Jul 2025**

- Delivered Go microservices, PostgreSQL data models and Pub/Sub workflows on Google Cloud, integrating Auth0, gRPC and Vue frontends for fine-grained authorization.
- Designed WASM-based OPA middleware achieving ~3× faster policy evaluation; built reusable Go scaffolding, AWS identity services and CI tooling during a Biostrand engagement.
- Evaluated PostgreSQL JSONB and relational modelling for hierarchical authorization data; delivered organization management features across gRPC services and Vue frontends.

Full Stack Software Engineer — **RealVNC** — **Oct 2022–Jul 2023**

- Developed Rport's Go backend and Vue 3 frontend, delivering API features, database migrations, OpenAPI documentation and GitHub Actions CI; contributed to SaaS architecture and a signed Windows MSI installer with upgrade, rollback and uninstall support.

Senior Software Engineer — **Learnlight** — **Aug 2021–Aug 2022**

- Built PostgreSQL PL/pgSQL synchronization with Row-Level Security and PostGraphile APIs, alongside a Node.js/GraphQL B2B analytics platform; delivered features and managed Jenkins deployments.
- Created a cloud-native sandbox for feature development, slow-query analysis and performance testing.

Full Stack Engineer — **PortaPortese / Freelance** — **…2006–May 2021**

- Built Flutter mobile apps for iOS/Android from Figma specifications; delivered a Dockerized chatbot stack using Node.js, Go/gRPC and PostgreSQL for two clients.
- Managed 20+ integration partners with Go/Java pipelines; containerized a legacy backend, reducing maintenance costs by up to 50%.
- Developed a JAX-WS API layer serving websites, mobile apps and integration partners through REST and SOAP.
- Built a classified media platform serving 900,000 monthly users (~50M page views) and PostgreSQL replication supporting 200,000+ concurrent sessions.

Skills

AI Engineering: Model Context Protocol (MCP), agentic workflows, LLM evaluation, benchmark design, automated grading, adversarial testing

Languages & Frameworks: Go, Java, TypeScript/JavaScript, Rust, Dart/Flutter, Node.js, Vue 3

Backend & Cloud: PostgreSQL (RLS), MySQL, SQLite, gRPC/Protobuf, GraphQL, REST, Docker, AWS, Google Cloud, Pub/Sub, Git, CI/CD

Spoken Languages: English (fluent), Italian (native)

Education

"La Sapienza" University of Rome — **1993–1996**

Bachelor Degree in Computer Science and Automation Engineering