Antonio Ivanovski

Senior Software Engineer — Full-Stack TypeScript | React · Node.js · PostgreSQL
North Macedonia (UTC+1) · Remote · EU-compatible hours
me@antonio.mk · antonio.mk · github.com/antonio-ivanovski · linkedin.com/in/antonioivanovski

SUMMARY

Senior Software Engineer with 10 years building full-stack TypeScript products in trust-critical domains — verifiable identity, encrypted messaging, payments. I work from spec to production, including a custom React reconciler for large documents and credential validation across four standards. I maintain Spliit Cloud, an open-source expense app serving roughly 400 users.

EXPERIENCE

Senior Software Engineer — Vidos (formerly Mailchain), UK (Remote) May 2022 - May 2026
Joined Mailchain in 2022; the company pivoted to Vidos in 2023, where I stayed until May 2026.
Vidos — verifiable credentials platform (2023 - 2026)

- Worked through mDoc (ISO/IEC 18013-5), OpenID for Verifiable Credentials (OID4VC), W3C Verifiable Credentials and SD-JWT, reconciling their differences into one validation, verification and authorization model with independently configurable checks, working primarily with mDoc and OID4VC.
- Built the React client where developers request and verify credentials such as digital driving licences (dashboard.vidos.id).
- Built interactive prototypes for clients and investors with AI coding agents against the Vidos API.
- Maintained the product alongside the CTO through its later stages and the company's wind-down in May 2026, owning application development while the CTO managed infrastructure.

Mailchain — end-to-end encrypted messaging (2022 - 2023)

- Onboarded multiple blockchain protocols and wallets through a flexible adapter, so users from different ecosystems could exchange messages in one system.
- Extracted the messaging core into a standalone TypeScript/Node.js SDK covering account registration, recovery through a mnemonic phrase, and encrypted message sending and receiving across Ethereum-compatible chains, NEAR and Tezos.
- Resolved Node.js/browser compatibility in shared messaging and cryptography code using polyfills, browser-compatible dependencies, separate builds and package entry points.
- Wrote documentation and supported developers integrating the SDK; worked with design, product and protocol teams on the client experience.

The service has since been shut down.

Senior Software Engineer — H4, Skopje (Hybrid) Oct 2019 - Nov 2021

- Built the document rendering layer in TypeScript, React and MobX on a custom React reconciler and host config, rendering to a virtual document model with positioned elements for words, sentences and highlights and own text measurement for custom fonts, which comment positioning depended on.
- Implemented document comparison, comments attached to content, rich formatting, section-based structure and highlights for very large documents.
- Profiled with browser devtools and stack traces to keep every re-render justified.

Senior Android Developer & Team Lead — Netcetera, Skopje May 2016 - Oct 2019

- Led a four-person team translating the EMV 3-D Secure 2.x specification into an Android SDK for payment security, covering planning, technical design, implementation and developer coordination.
- Integrated the SDK into a shared certification harness that programmatically drove the SDK UI to simulate taps, scrolling and other device interactions, and worked the test campaign through certification; joined bank and partner meetings on SDK adoption.
- Contributed to a white-label Android banking application used by more than 50 Swiss banks, implementing bank-specific customizations and integrating an existing SDK for contactless payments through digital card provisioning.
- Mentored Android and iOS interns building applications to visualize environmental data from the pulse.eco platform.

SIDE PROJECTS

Maintainer — Spliit Cloud, Expense Sharing · GitHub · Live Jun 2026 - Present

- Started from my own expense-splitting need; maintain an open-source fork of Spliit (TypeScript, React, Hono, tRPC, PostgreSQL, Turborepo) with external contributors and operate a free hosted service with approximately 400 registered users and 30,000 expenses. Own application development, deployment and ongoing operation.
- Reworked the account-less app around user accounts, synchronized groups, invitations and member permissions, adding passkeys, email/password, email-link, social and single sign-on, and anonymous accounts with recovery links. Reworked expense splitting with exact integer-based arithmetic and deterministic rounding, rebuilt recurring expenses around durable background jobs with retries and recovery, added duplicate-request protection and version checks, and built import flows for original Spliit and Splitwise data.
- Shipped AI-assisted receipt/voice expense entry using Vercel AI SDK with human review, plus batch categorization with user-reviewed calibration rounds. Replaced LLM categorization with TypeSafe AI's Jev, reducing observed latency from roughly 2 seconds to 250 milliseconds.
- Built an MCP server and OAuth flow so agents can authenticate and use the app; used by my own agent, with OpenAI app publication pending. Provide webhooks for user-defined tools and scripts. Third-party native clients have started building on the API.

- Review external PRs, triage issues, manage releases, and write contributor and upgrade/migration documentation. Support self-hosting with multi-architecture builds for x86 and ARM.

Contributor — Mailflare, Open-Source Workspace · GitHub **Oct 2026 - Present**

- Contribute mail-client fixes to a self-hosted, open-source workspace, including sender details and authentication warnings (five PRs merged).
- Implemented and submitted web passkey authentication — WebAuthn enrollment, passkeys as a second step after password sign-in, sign-in policies and operator-assisted recovery.
- Submitted performance PRs making folder switching and message opening instant (cache-first reader, exact-key prefetch, removed fixed waits) and resolving the signed-in landing account server-side for first paint; follow-up draft removes startup waits and batches per-row server work.

Shared Secret Encrypt — Personal Project · Browser Threshold Secret Sharing · GitHub

- Personal browser experiment combining encryption with threshold secret sharing.

SKILLS

Languages: TypeScript, JavaScript
Frontend: React, Next.js, MobX, Tailwind CSS, Storybook
Backend: Node.js, Hono, tRPC, Better Auth (authentication), OAuth, pg-boss (background jobs)
Database: PostgreSQL, Prisma, Drizzle
Identity & Security: W3C Verifiable Credentials, SD-JWT, mDoc (ISO/IEC 18013-5), OpenID for Verifiable Credentials (OID4VC), end-to-end encryption
AI: OpenChamber for agent-assisted exploration, planning, implementation, and review; task-specific skills; Vercel AI SDK; MCP integrations. Experimenting with parallel Git worktrees.
Testing & Delivery: Jest, Vitest, Playwright, Docker, Nx, Turborepo; self-hosted services (Docker, Uptime Kuma)
Spoken languages: English (proficient)

SPEAKING

JavaSkop 2019 **Speaker · Java code generation with JavaPoet (conference page)**

EDUCATION

B.Sc. in Computer Science and Engineering **2012 - 2016**

Faculty of Computer Science and Engineering, Skopje North Macedonia