




Philipp Bolte

 GitHub

 LinkedIn

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ABOUT

I love designing and building full-stack solutions to **real problems**, adopting a practical, **product-oriented** mindset. I thrive on learning and experimenting with new technologies, focusing on creating value by making technology serve real needs. I value working within small, dedicated teams of skilled engineers who maintain an **open error culture**, focus on **delivery rather than meetings**, and provide **space for technical voices** to shape product direction.

WORK EXPERIENCE

March 2022 – Today

Full Stack Software Engineer

Spherity GmbH

- **Architected and developed caro.vc**, a B2B Self-sovereign Identity SaaS enabling pharmaceutical companies to achieve DSCSA compliance.
- Implemented **core full-stack application components** through stakeholder collaboration: interactive dashboard, user management, Verifiable Credential issuance, Stripe payments, platform messaging, Gleap support interface, admin functions, and test suites.
- Owned **React frontend rewrite** building a base component library, Framer Motion, networking, global dialogs, and a new testing architecture based on Playwright, Vitest, react testing library, and msw.
- Architected, written, and advanced **standards for trustless architectures** within the Open-Credentialing Initiative ecosystem.
 - Served as technical consultant aligning OCI Digital Wallet Conformance Criteria with industry requirements and W3C specifications.
 - **Designed ERC-7506 "Trusted Hint Registry"** for issuer verification funded by Ethereum Foundation. Delivered open source suite: smart contract, TypeScript library, and Next.js frontend.
- Developed open-source timestamping mechanism using Merkle Trees and ERC-7506 for **cryptographic verification of data existence**.
- **Stack:** Nest.js, Vitest, Prisma/Drizzle, Terraform, Fly.io, Tailscale, Postgres, Typescript, React, React Query, Framer Motion, Playwright, Tailwind, Auth0, Github Actions

March 2019 – May 2020

Working Student

Boston Consulting Group GmbH, BCG Platinion, Blockchain Chapter

- Conception, development and presentation of Blockchain PoCs for various sectors, including land registries, aerospace, and apartment rentals, using Solidity and Hyperledger.

EDUCATION

Sep 2019 – Nov 2021

Master of Science in Business and Information Systems Engineering

Brandenburg University of Applied Sciences

- GPA: 1.0 (Best of Year)
- Thesis: "Self-sovereign Identity: Development of an Implementation-based Evaluation Framework for Verifiable Credential SDKs" (1.0)

SKILLS

Languages

German (mother tongue), English (fluent)

Programming

Typescript, Javascript, Swift, Python, Java, Solidity

- Projects
- Oscar: A SwiftUI Weather App
 - Apple’s weather app became a reliability disaster since iOS 16 and the Dark Sky integration. I’m creating something better by leveraging free and open weather data sources (Open-Meteo, Brightsky, DWD products) into an elegant and accessible app. Features include comprehensive forecasts (minutely rain, hourly, daily, air quality), interactive radar map, and customizable widgets.
 - Serves as my experimental playground for exploring native iOS APIs and deepening my iOS development expertise.
 - Try it: <https://testflight.apple.com/join/xf5iJcHh>
 - agilepilled.com
 - A provocative manifesto articulating the work philosophy my colleagues and I adhere to, expressing my philosophy on how technical teams should operate.
 - Sparked some good discussions on Hackernews
 - ServerlistMOTD: A Minecraft server plugin
 - Empowers server administrators to customize server list text (MOTD) with creative flexibility, having over 100,000 downloads across multiple platforms.
 - Offers advanced customization including dynamic player count display, flexible slot management, and context-aware MOTDs based on the connecting player. Includes support for custom variables, specialized messages for whitelisted or banned players, and a maintenance mode system.
 - My first programming project when I was 15 (2014) to learn Java fundamentals.
 - Twitter follower network analysis of German political parties
 - Created a Python script for recursive data collection of tweets and follower networks extending to second-level connections.
 - Conducted tweet content analysis through visual wordclouds. Developed and analyzed complex follower graphs using Gephi, incorporating advanced community detection algorithms and relationship pattern analysis.
 - Personal website at bolte.id created with Nest.js and deployed through Cloudflare Pages.
 - BTTV for Safari: Enhanced Twitch viewing experience with custom emotes via BTTV/FFZ/7TV integration for Safari users.
 - ChargeMe: A macOS utility that sends notifications for each battery percentage drop below five percent serving as a charging reminder.