

Nationality: German
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Philip Gutbrodt

I am a full-stack software engineer with 7+ YOY interested in building reliable and resilient software systems that delight the user and work at scale. Nothing is more frustrating than broken or poorly designed IT products. My role at Axel Springer provides me with the perfect hands-on experience in technologies such as TypeScript, GraphQL, Node.js, and React and serves as my track record of delivering effective solutions efficiently. My practical knowledge and excellent academic background allow me to tackle complex problems holistically from various angles.

Let's build something marvellous together!

Work Experience

Senior Software Engineer Transactions Team	Axel Springer NMT Hamburg, Germany	Jul 2022 - Present
<ul style="list-style-type: none">Filled the role of Lead Frontend Developer by continually improving the frontend development workflows as well as adhering to "Best Practices" in frontend architecture and providing essential technical guidance to teammates and stakeholdersDesigned and implemented the Apollo GraphQL API and Express.js backend powering transactional elements of www.autobild.de and www.computerbild.de. The API provides multiple query routes for various transactional elements and handles the entire car market at gebrauchtwagen.autobild.de. The backend exposes multiple routes to fetch data from the GraphQL API and return hydrated React components as Oembed responseMigrated and improved the consumer service of the Amazon Product Advertising API feed to TypeScript, adding Redis caching and rate limiting, reducing the number of requests to the API by over 90% and preventing API lockoutMentored junior developers and students to enable knowledge sharing and professional developmentPitched the adoption of TypeScript for future projects by convincing coworkers and management. Led the technology switch by training the team, conducting extensive code reviews and assuring best practices		
Sabbatical		Jan 2023 - Jun 2023
<ul style="list-style-type: none">Travelled Southeast Asia and discovered 5 countries in 6 monthsConducted an experiment where I lived for one month as a digital nomad in Thailand		
Software Engineer Various Teams	Axel Springer NMT Hamburg, Germany	2019 - 2022
<ul style="list-style-type: none">Initiated and led a project to develop a Car Finder prototype for www.autobild.de, which included designing an Apollo GraphQL backend to provide multiple query endpoints and React components to display data and provide an excellent user experience. Further Technologies used include TypeScript, Next.js, Prisma, MySQL, MongoDB and JestPlayed a shaping role in a long-lasting modernization project, where I developed a backend (Nest.js, GraphQL) to aggregate data from multiple sources to be consumed by the frontend. Furthermore, I also impacted the frontend development by implementing best practices into the page and component architecture (Nuxt.js, Vue)Initiated and led a project to redefine frontend development workflows, moving frontend responsibilities from a graphics team into the development teams to enable the transition to component-based development		
Web Developer	TUDOCK Hamburg, Germany	2018 - 2019
<ul style="list-style-type: none">Worked on Magento e-commerce stores for various customers, designed and implemented a blog in Magento with PHPImplemented an internal project management tool including automated aggregation of KPIs per e-commerce store using Symfony, PHP and JavaScript		

Industrial Quality Engineer

GEA Group
Büchen, Germany



2017-2018

- Automated numerous quality reports and created aggregated reports across 6 international subsidiaries using Excel VBA

Technologies and Languages

- Languages:** TypeScript, JavaScript, PHP, Python, Shell, C
- Technologies:** GraphQL, Deno, Node.js, MySQL, MongoDB, PostgreSQL, Redis, Docker, Kubernetes, Git
- Frameworks:** React, Vue, Next.js, Nuxt.js, Apollo, Express.js, Laravel, Symfony, Flask
- Other:** Experiment design, A/B tests and statistical analysis

Side Projects

- CourseHub** – A platform listing academic PhD-level courses. Implemented in TypeScript with Next.js, React, Tailwind and PostgreSQL, hosted on [Vercel](#) and Supabase 
- Crypto-Trader** – A service monitoring prices of various Cryptocurrencies and trading automatically based on specific parameters. Implemented as a Deno executable written in TypeScript consuming the Kraken API, hosted on Digital Ocean
- ReactJobs (Discontinued)** – A platform listing developer jobs based on the React ecosystem. Payments were implemented with Stripe API and images were stored on AWS S3, hosted on [Vercel](#) 

Education

M.Sc. Applied Computer Science **Nordakademie** **2020-2022**

- Valedictorian: Highest performing graduate in Applied Computer Science 2022 (Grade: 1.3 / Very Good)
- Master's Thesis (Grade: 1.3 / Very Good)
Designed, executed and statistically analyzed three Online Controlled Experiments (A/B Tests) on [www.computerbild.de](#) to identify superior CTA usage. The thesis concluded with executable suggestions for the product management team to increase affiliate revenue.

Tech: TypeScript, Kameleoon
Statistics: SPSS / R, ANOVA, ANCOVA, Kruskal-Wallis, Whitney-Mann U, Levene

Apprenticeship Computer Science Expert **ITECH BS14** **2018-2019**

- Completed in 16 instead of 36 months (Grade: 1 / Very Good)

B.Sc. Industrial Engineering **Nordakademie** **2013-2017**

International Experience **USA; Switzerland; Colombia** **2009-2010; 2015; 2015**

Other Interests

- Fitness** – I enjoy the variety CrossFit provides and have a Snatch of 62kg and Clean of 85kg at 73kg bodyweight
- Finance** – I invest in A1JX52 long-term and made some smaller bets on single stocks
- Scuba Diving** – I am a PADI certified Rescue Diver with 50+ dives