Inaki Anduaga

Curriculum Vitae

About me

Driving change. At maximum speed. With uncompromising quality. A relentless passion for improving engineering processes, crafting top-notch code and building scalable solutions is what keeps me late at night, reading about new technologies, or prototyping solutions that can increase development performance. The end objective is simple: Give the organization a competitive advantage to move faster than the competition, creating an engineering culture and processes that go beyond any single engineer and establish a foundation for continued, sustainable growth.

I've been solving problems for the past twenty years, first as a physicist fascinated by the mathematical beauty and complexity of nature's laws, and nowadays as a software engineer working on more practical challenges, always aspiring for the most efficient and clean solution. Although different problems require different tools, the underlying thinking is usually the same, namely consistent logic, big-picture analysis, generalization of specific solutions, and looking at edge cases, whether solving a differential equation or designing a new library. These are the concepts I work hard to excel at.

Software Engineering Skills

Scalability	Language & framework standardization, documentation, establishing best practices.
Tooling	Library design, application & infrastructure templating & bootstrapping.
TypeScript	**React**, **Node.js**, Jest, Webpack, RxJS, **library publishing**, **React Native**.
Scala	**Play**, Sangria GraphQL, RxScala, Circe.
Other	**Bash**, Python, **PHP**.
AWS	CDK, SDK, Cloudformation, Serverless, Streams, Containers, Databases.
Observability	Tracing, Datadog, OpsGenie, ELK.
Streams	**Kafka**, **Avro (talk)**, **Akka Kafka Streams**, ReactiveX.
CI	**Jenkins**, **Travis**.
Server	**Nginx**, Apache, Varnish, Ansible, AWS CloudFront.
APIs	GraphQL, schema stitching, client documentation, **OpenAPI**.
Product	Cycle planning, Inceptions, OKRs, A/B testing, UX collaboration.

Pro Tip: Click on the bolded skills to view examples of my work.

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Professional Experience

2019-present **Principal Software Engineer**, *AutoScout24 GmbH*, Munich, Germany.

Driving technology innovation, reducing complexity and increasing the quality of solutions and code used throughout the organization. From introducing a documentation system to make sure all our applications and libraries are properly documented, to designing a composable templating system that standardizes programming languages and application structure across hundreds of microservices, the position gives me a daily chance to improve AutoScout24 at scale. Some of the things I do:

- Lead and work on high-impact initiatives to improve engineering practices across all of AutoScout24, incl. templating, documentation, libraries, and platform.
- Technical lead for multiple engineering teams across several segments (onsite/remote).
- Develop tech concepts for upcoming features together with business and product.
- Guide the long-term tech strategy (identify, integrate, adopt and deprecate technologies).
- Identify and drive the early adoption of industry-changing technologies.
- Improve communication among engineering teams, foster collaboration.

2017-2019 **Lead Engineer**, *AutoScout24 GmbH*, Munich, Germany.

In charge of pushing innovation at AutoScout24 through research of new technologies/frameworks, introduction of best coding practices and improving overall technical abilities of fellow engineers. Some of the highlights: establish TypeScript as the default language for frontend and serverless, improve code quality company-wide by introducing and enforcing compiler/linting/formatting standardized rules.

2013 - 2016 **Full Stack Developer**, *tado GmbH*, Munich, Germany.

In charge of developing and maintaining the entire frontend & backend of the main tado.com website, including CI infrastructure, AWS server setup/provisioning, RDS database migrations/backups, code deployments, logging & performance tuning.

2010 - 2013 **Entrepreneurship (Admin/Site Owner)**, *TheCouponbay.com*, USA/Munich.

Site owner and administrator of an affiliate-marketing website, responsible for all backend and frontend operations sitewide, including entire website code, server security, as well as managing affiliate partner relationships with publishers such as HP, Dell, Lenovo and Sony.

2004-2010 **Teaching Assistant**, *UIUC*, Urbana-Champaign, USA.

- Classroom teaching of beginner and intermediate courses in Physics
- Ranked as "Excellent Teacher Assistant" on multiple semesters (2008, 2009, & 2010)

Higher Education

2004-2010 **Physics Ph.D**, *UIUC*, Urbana-Champaign, USA, *GPA: 3.92*.

- Specialization in theoretical Condensed Matter Physics
- Thesis: "Many body topics in condensed matter physics"
- **The classical hydrodynamics of the Calogero–Sutherland model**
- **Mass flows and angular momentum density for $p_x + ip_y$ paired fermions...**

1998-2004 **Physics Bacherlor**, *Instituto Balseiro / UNLP*, Argentina.

Languages

English Fluent (C2 level)

Others German (Intermediate), Spanish (Native Speaker)