



Inaki Anduaga

Curriculum Vitae

About me

Code must get better. Every day. Every time. Every line. A relentless passion for better code is what drives me late at night to read about new technologies, new tools, and new languages, and has brought me a long way in a short few years. But I'm nowhere near where I want to be. In software engineering, with its ever-changing languages and technologies, there is always something to be excited about, with fun and incredible things awaiting to be built. If feel there is so much to learn, yet so little time. . .

I've been solving problems for the past fifteen 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 the most efficient and clean solution. Although different problems require different tools, the underlying thinking is usually the same, namely consistant logic, big-picture analysis, generalization of specific solutions, and looking at edge cases, whether working with a differential equation or writing a unit test. These are the concepts I work hard to become better at every day.

Software Skills

- Scala **Play**, Akka Actors, Sangria GraphQL, Type Classes, RxScala, Circe
- Javascript **React Native (talk)**, **React (Redux)**, **TypeScript**, **CycleJS**, **AngularJS**, RxJS, **NodeJS**, **Babel**, Jest, **Jasmine**, **Mocha**, **Npm**, **Webpack**, **Gulp**
- DevOps AWS: Cloudformation, Lambda, Kinesis, ECS, EC2, RDS, SDK, Route53 and more
Logging/Metrics: JMX, Datadog, OpsGenie, Rsyslog, Kibana, ElasticSearch
CI / CD: **Travis**, **Jenkins**, GoCD, Github webhooks
Containers: **Docker**, **Docker Compose**
Event Sourcing: **Kafka**, **Avro (talk)**, **Akka Kafka Streams**, ReactiveX
Servers: **Nginx**, Apache, Varnish, Ansible
- PHP **Laravel**, **Composer**, **Mockery/PHPUnit**
- Other **Bash**, **Latex**, Code quality tools (Scalafmt, PrettierJS, TSLint)
- API GraphQL, Apollo Client, Rest, **Swagger**
- To Learn Machine learning, Python, Functional Programming, Kubernetes, Scala Shapeless

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

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Professional Experience

- 2017-present **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. Since my start at the beginning of 2017, I've worked towards AutoScout24 goal of merging the mobile and web teams by introducing our team to React / TypeScript, while self-learning and then teaching/advocating for React Native and GraphQL. This has put our team in an excellent technical position to complete the integration in early 2018. Some of the things I've worked on:
- React Native as a solution to integrate mobile development into traditional web teams
 - Advocate and introduce GraphQL for newer APIs
 - Introduce modern React / TypeScript / ImmutableJS / RxJS frontend stack and migrate existing legacy UI codebase (ongoing)
 - Introduce linting/formatting tools for easier team collaboration and more consistent code
 - Introduce PR-based commit approach where every contribution is peer-reviewed, raising code awareness and quality through feedback
 - Mentor Junior & new engineers in both company processes and programming know-how
- 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 EC2 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, and 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"
- 1998-2004 **Physics Bachelor**, *Instituto Balseiro / UNLP*, Argentina, *8.96/10*.

Languages

- English Fluent (C2 level)
Others German (Intermediate), Spanish (Native Speaker)

Publications

- 2008 **Michael Stone, Inaki Anduaga and Lei Xing**, The classical hydrodynamics of the Calogero–Sutherland model, *J. Phys. A: Math. Theor.* **41** 275401 *doi:10.1088/1751-8113/41/27/275401*.
- 2007 **Michael Stone, Inaki Anduaga**, Mass flows and angular momentum density for $p_x + ip_y$ paired fermions in a harmonic trap, *Annals of Physics* *DOI:10.1016/j.aop.2007.04.020*.

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