# 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 ways in a a short few years. But I'm nowhere near where I want to be. In programming, with its ever-changing languages and technologies, there is always something to be excited about, with fun and incredible things waiting to be built. If feel there is so much to learn, yet so little time. . .

I've been solving problems for the past 15 years, first as a physicist fascinated by the beauty and complexity behind nature's laws, and nowadays as a software developer working on solving practical problems in the most efficient and clean way. 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 everyday.

## ▬ Software Skills

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|---|---|
| Javascript | **Node.js**, **TypeScript** (+ES6/ES7), **AngularJS**, jQuery, Npm, Bower, **Jasmine**, Mocha, **Gulp**, Grunt, Webpack. |
| PHP | **Laravel**, **Composer**, **PHP OOP**, Mockery/Phpunit, ORM, Types, PHPDoc. |
| DevOps | **AWS Stack**: RDS, Cloudfront, EC2, ELB, S3, Route53, OpsWorks, SDK (CLI, NodeJS). **Docker**, CI (**Travis**, **Jenkins**), **Nginx**, Apache, Varnish, HHVM, Rsyslog, Kibana, ElasticSearch, automatic blue-green deployments, Upstart. |
| +Languages | Bash, Less, HTML5, Bootstrap, Perl (tiny bit), Latex. |
| Versioning | Git (git flow), GitHub, Bitbucket, Automatic Changelogs, Tagged Releases. |
| API | Rest, Swagger, OAuth. |
| Learning, Queued | **ReactJS (w/ redux pattern)**, **ReactiveX**, **AngularJS 2**, functional programming, Scala (**strong-typed languages**), AWS Lambda, Hacklang, Graph DB, WebSockets, React Native, InfluxDB, ClojureScript. |

## Experience

### Professional

**2013 - Now**  **Full Stack Developer**, *tado gmbh*, Munich, Germany.

In charge of developing & maintaining the frontend & backend of the main tado website, plus an internal dashboard/order management system used by customer support to handle the online shop. In addition, I manage the entire website content lifecycle, including CI infrastructure, AWS EC2 server setup/provisioning, database migrations/backups, code deployments, logging, performance tuning, etc.

Some of the tasks I frequently do:
- Adding functionality and improving the AngularJS-based webshop.
- Implementing advanced backend features to support the complex website structure (external SDKs, multilanguage support, AWS S3 storage, user accounts, etc).
- Management of the entire deployment pipeline (including continuous deployment).

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

Site owner and administrator, with the following core functions:
- Full-stack web developer for all backend and frontend operations sitewide, including entire website design, server security, 3rd party API integrations
- Manage marketing operations by creating and running Google Adwords & Microsoft Bing Ads advertising campaigns through a self-built custom interface.
- Establish affiliate partner relationships with publishers such as HP, Dell, Lenovo and Sony.

### Academic

**2004-2010**  **Teaching Assistant**, *UIUC*, Urbana-Champaign, USA.
- Classroom teaching of beginner and intermediate courses in Physics, such as Thermodynamics, Electromagnetism.
- Grading of labs, exams and homework assignments.
- Ranked as "Excellent Teacher Assistant" on multiple semesters (Spring 2008, 2009, & 2010, Fall 2009).

## 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 Bacherlor**, *Instituto Balseiro / UNLP*, Argentina, *8.96/10*.

## Languages

English    **Fluent**                                              *C2 level, lived 7 years in the USA*

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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