

ANDREAS PAHLER

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Freelance full-stack software developer with a background in physics and economics and seven years of experience in consulting, financial services and technology startups.

ENGINEERING PROFILE

Languages	JavaScript/Node.js (5 years) · TypeScript (2 years) Java SE 7/8 (3 years) C# 4.0/5.0 (4 years) Ruby, Python, Haskell, Idris, Clojure (side projects)
Front-end	React (Redux etc.), Angular (1, 2) (advanced) HTML5, CSS3, Sass, Less + various frameworks (intermediate) npm, webpack, Browserify, Selenium, Nightwatch, Capybara, WebSockets etc.
Back-end	Node.js – Express, Koa, RxJS, XStream, Mocha, Chai, supertest etc. Java – Dropwizard, Guava, Guice, JUnit, Mockito etc. .NET – WCF, ASP.NET, Ninject, NUnit etc.
Databases	PostgreSQL, MySQL, MongoDB, Neo4j
Other	RabbitMQ, Elasticsearch, Redis
DevOps	Docker, Kubernetes, OpenShift, TeamCity, Jenkins, Travis CI, Heroku, AWS
Practices	Agile, TDD, BDD, multi-threading, distributed systems, reactive programming RESTful web services, microservices/SOA, continuous integration/delivery

WORK EXPERIENCE – FREELANCE

McKinsey & Company Inc. May 2017 – Present
Full-stack Developer *Berlin, Germany*

- Digital McKinsey (digital transformation practice)
- Technologies: Node.js, TypeScript, React, Angular 2, PostgreSQL, Neo4j, Docker, Kubernetes, OpenShift.

ICSA Software International Ltd. November 2016 – April 2017
Full-stack Developer *London, UK*

- Boardroom management SaaS vendor
- Technologies: React, Redux, TypeScript, C#, ASP.NET.

RangeRoom Ltd. May 2016 – October 2016
Lead Developer *London, UK*

- Early-stage fashion technology startup
- Technologies: Node.js (Express), React, Mongo, Travis CI, AWS (EC2, S3).

MatchesFashion Ltd. July 2015 – December 2015
Full-stack Developer *London, UK*

- Leading luxury fashion retailer
- Technologies: Node.js (Express, Koa), Angular, React, Mongo, MySQL, AWS (EC2, S3 etc.).

WORK EXPERIENCE – FULL-TIME

RefME Ltd.

Lead Developer

July 2014 – June 2015

London, UK

- RefME is an **education technology startup** that builds productivity tools for university students.
- I hired and led a team of four junior developers – our team designed and implemented two of the company's main backend systems (reference search, web page metadata scraping).
- Technologies: Node.js (Express etc.), Ruby on Rails, Java (Dropwizard), Angular, React, PostgreSQL, MongoDB, Redis, RabbitMQ, Elasticsearch, Travis CI, Heroku.

UBS AG

Software Engineer (Associate Director)

January 2014 – June 2014

London, UK

- My team in Counterparty & Treasury IT built a **CVA (credit value adjustment) and credit risk system** that covers the bank's OTC and exchange-traded derivatives positions.
- I worked as an analyst/developer in the team that extended the system's core risk engine to support FVA (funding value adjustment) calculations. We also refactored large parts of our system towards a service-oriented architecture.
- Technologies: C# (ASP.NET Web API), Node.js (Express), Angular, Oracle.

swissQuant Group AG

Quant Engineer

June 2013 – December 2013

Zürich, Switzerland

- swissQuant is a boutique **quant finance consultancy** and software provider based in Zürich.
- As a quant analyst and developer I designed and implemented the risk calculation engine of swissQuant's portfolio management solution for wealth managers.
- I also managed the day-to-day coordination with two supplier companies.
- Technologies: Java (Dropwizard etc.), jQuery, MySQL, PostgreSQL, Jenkins.

d-fine Ltd.

Senior Consultant

September 2010 – May 2013

London, UK

- d-fine is a **risk management consultancy** with main offices in Frankfurt.
- On my first project my team built a **counterparty credit risk system** for the front office of a major investment bank in London.
- I worked on the team that designed and implemented the system's core calculation engine, covering requirements of the CVA trading desk, credit and market risk control, and Basel III regulatory compliance for both overnight and intraday risk calculations.
- On my second project I worked on the migration of a **commodities trading and risk management system** at an investment bank in Zürich.
- Technologies: C#, Java, Mongo, Apache Solr, memcached, TeamCity, etc.

EDUCATION

London School of Economics

M.Sc. in Economics and Philosophy

September 2009 – August 2010

London, UK

- Graduated with distinction.

Jacobs University Bremen

B.Sc. in Physics

September 2005 – June 2008

Bremen, Germany

- GPA of 1.28 (on scale from 1.0 to 5.0).