

# STEPHAN RABANSER

☎ +49 (0)157 31765174 — ✉ steve@steverab.com — 🌐 steverab.com, home.cs.tum.edu/~rabanser  
Einsteinstraße 3 — Garching bei München, Bavaria 85748 — Germany

## EDUCATION

<b>M.Sc. in Computer Science</b> <i>Technische Universität München (TUM)</i>	October 2015 – September 2018 (exp.) <i>Munich, Germany</i>
<b>Honours Degree in Technology Management</b> <i>Center for Digital Technology and Management (CDTM)</i> <i>Technische Universität München (TUM)</i> <i>Ludwig-Maximilians-Universität (LMU)</i>	August 2015 – September 2018 (exp.) <i>Munich, Germany</i>
<b>Visiting Research Student</b> <i>Massachusetts Institute of Technology (MIT)</i>	February 2016 – June 2016 <i>Cambridge, MA, USA</i>
<b>B.Sc. in Computer Science, Minor in Economic Sciences</b> <i>Technische Universität München (TUM)</i>	October 2012 – October 2015 <i>Munich, Germany</i>
<b>Higher Education Entrance Qualification (A-levels)</b> <i>Technologische Fachoberschule “Max Valier”</i>	September 2007 – July 2012 <i>Bolzano, Italy</i>

## INTERNSHIPS

<b>Intern Software Development Engineer</b> <i>Amazon – Core Machine Learning Team</i> <ul style="list-style-type: none"><li>Future intern on the time series analysis / forecasting sub-team.</li></ul>	August 2017 (exp.) – October 2017 (exp.) <i>Berlin, Germany</i>
<b>Intern Software Development Engineer</b> <i>Amazon Web Services (AWS) – OpsWorks Team</i> <ul style="list-style-type: none"><li>Developed internal business intelligence tool (business metrics reporting and automated dashboard generation) for new OpsWorks service offering (OpsWorks for Chef Automate).</li><li>Gained deep insights into a broad range of AWS products and large-scale software development at Amazon.</li></ul>	July 2016 – October 2016 <i>Berlin, Germany</i>
<b>iOS &amp; API Developer</b> <i>Südtiroler Informatik AG (SIAG)</i> <ul style="list-style-type: none"><li>Responsible for developing two in-house iOS applications and parts of the corresponding APIs:<ul style="list-style-type: none"><li>Province-bounded weather app for iPhone</li><li>Province-bounded election results app for iPhone and iPad</li></ul></li></ul>	March 2013 and May 2011 <i>Bolzano, Italy</i>

## AWARDS & HONORS

<b>Elite Network of Bavaria</b> <i>Member</i>	April 2016 <i>Munich, Germany</i>
<b>Apple Worldwide Developers Conference (WWDC)</b> <i>Student Scholarship Recipient</i> <ul style="list-style-type: none"><li>Developed résumé iOS app to highlight academic and professional experience as well as hobbies.</li><li>Got awarded a free WWDC ticket.</li></ul>	June 2013 <i>San Francisco, CA, USA</i>
<b>Stripe Capture the Flag</b> <i>Hacking Contest Participant</i> <ul style="list-style-type: none"><li>One out of 250 people, who successfully hacked themselves through Stripe’s “Capture the Flag” contest.</li></ul>	February 2012 <i>World Wide Web</i>

## TECHNICAL STRENGTHS

<b>Programming Languages</b>	Java, Python, Swift, Obj-C, Ruby, C, Haskell, HTML5/CSS3/JS
<b>Databases</b>	MySQL, PostgreSQL, MongoDB
<b>Tools</b>	Git, IntelliJ, Xcode, Sketch, Eclipse, Framer Studio

## LANGUAGES

<b>German</b>	Native
<b>English</b>	Fluent, TOEFL iBT 104 (October 2014)
<b>Italian</b>	Fluent

## RELEVANT COURSEWORK

---

### **Data Science in Astrophysics and Industry**

*Max Planck Institute for Astrophysics*

March 2017 (exp.) – August 2017 (exp.)

*Garching, Germany*

My tasks in this project include (but are not limited to):

- Transform an existing Gaussian Mixture Model into Google Tensorflow.
- Optimize the algorithmic implementation of the model (e.g. number of mixture components, hyper-parameters).
- Find a good approximation of the used density matrix using sparse matrices.
- Explore different training methods (stochastic vs. deterministic and EM vs. gradient descent vs. Newton).
- Determine parallelizable operations and to which extend sync points are needed.

### **Stylight Now, Tech Lead**

*Managing Product Development – CDTM*

October 2015 – January 2016

*Munich, Germany*

- Developed a simple and easy direct checkout solution for the fashion aggregator Stylight to raise the conversion rate throughout their platform, but especially in their apps.
- Created iOS app (UI/UX + code) which will be further refined by Stylight and eventually incorporated into their live platform.
- Got hands on experience with business development strategies, user and market research, project management, and collaboration in a diverse team.

### **Practical Course Coach (iPraktikum – Bosch Dots)**

*Advanced Project Management – Chair for Applied Software Engineering*

October 2015 – January 2016

*Munich, Germany*

- Team coach for the Robert Bosch GmbH team as part of the iOS Praktikum WS 15/16.
- Developed a system that helps Bosch with matching active but also potential new suppliers to current Bosch projects in a smart and easy way.
- Cross-team modeling, architecture, and documentation instructor.

### **Spot.io, Bird Classifier**

*Deep Learning Elective – CDTM*

October 2015 – December 2015

*Munich, Germany*

- Gained insights into the basics of applied machine learning and deep learning algorithms, frameworks, and techniques.
- Trained multiple convolutional neural network by using Nvidia Digits and Caffe for different kinds of birds.
- Developed a classification pipeline for handing over images from a broadly trained network for general bird clusters to more granular networks for specific bird species.

### **Teaching Assistant**

*Swift Introduction Course – Chair for Applied Software Engineering*

August 2014 – November 2014

*Munich, Germany*

- Held a 2h talk and prepared the corresponding tutorial about RESTful interaction with web services within iOS and OS X apps.
- Developed a course-matching sample API by using Java technologies (Maven, Glassfish, Jersey, JPA).
- Supported course administration by writing and reviewing course assignments.
- Highlighted by Apple as one of the first Swift courses at major universities.

## PERSONAL PROJECTS

---

### **Tranzport**

*macOS Application & API*

May 2015

*Munich, Germany*

- Developed JSON API to interact with Munich's public transportation system by using Ruby Sinatra.
- Developed corresponding macOS status bar application to display departures for any station in Munich.

### **Multiply & Hours**

*Startup & iOS Application*

January 2014 – September 2014

*Munich, Germany & Berlin, Germany*

- Essential member in the establishment of a startup named Multiply at a very early stage.
- Mainly responsible for calendaring and time-management app Hours for iOS.
- Left Multiply in order not to lose focus on my academic career.

### **Apfeltech**

*German Tech Blog*

September 2010 – May 2014

*World Wide Web*

- Headed daily business as Editor-in-Chief from 2011 to 2012.
- Helped coding key parts of the website.