



# Hans-Peter Dietz

## *Curriculum Vitae*

### Personals

Date of birth Feb 26, 1987 at Rothenburg o.d. Tauber, Germany  
Nationality German  
Marital status Single

### Key Skills

Software Architecture Designing distributed systems is one of my favorite tasks. Be it RESTful microservices with the occasionally interspersed SPA or IoT systems.

Software Engineering I am passionate about high quality software development. In process, operations and code.

UX I am knowledgeable in human computer interaction. By education and vocational experience.

JavaScript ECMAScript is my bread and butter. No matter where - frontend, backend, jobs, tools, you name it. It is my personal default language to get things done. I code quite a bit. Not only at work, see the projects section.

For an overview of technologies I have have worked with, please refer to my personal website: <https://hpdietz.com/stack>

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## Vocations

- 2018–present **Application Architect and UX Responsible**, OSRAM, Munich.  
<https://www.osram.com>.  
Application Software Architect and UX Responsible in the Smart Positioning Solutions research and development team. Design and implementation of location based services and IoT applications for OSRAM EINSTONE.  
**Details:**
- Agile and lean development process (SCRUM).
  - Architecture, interaction and user-experience design of multiple native mobile applications.
  - System and API design of distributed web platforms for IoT device management and Smart Retail.
  - Cloud infrastructure: Microsoft Azure.
  - Implementation of web front end solutions with REACT/REDUX.
  - Implementation of microservices with NODE.JS/KOA.
  - Test and behaviour driven (TDD/BDD) development approach using various frameworks, including JEST, MOCHA, CHAI and SINON.
- Peculiarities:**
- Held tech talk about analytics for IoT solutions.
- 2015–2018 **Software Engineer**, CHECK24, Munich.  
<https://www.check24.de>.  
Full stack JAVASCRIPT developer and DevOp in the animal insurance team.  
**Details:**
- Agile and lean development process (SCRUM/KANBAN).
  - Front end development using various frameworks, including (vanilla) ECMAScript 2015, ANGULARJS 1.x, REACT, REDUX, MITHRIL and RIOT.JS.
  - Development of backend (micro-) services, jobs and APIs using various technologies, including NODE.JS and C#.
  - Test and behavior driven (TDD/BDD) development approach using various frameworks, including JASMINE, KARMA, MOCHA, CHAI, SINON, CUCUMBER.JS and PROTRACTOR.
  - Various DevOps tasks, including:
    - Setup and maintenance of DOCKER infrastructure.
    - Setup and maintenance of reverse proxy and load balancing nodes using NGINX.
    - Machine provisioning with ANSIBLE and BASH.
    - Maintenance of CI/CD pipeline (BAMBOO) and Linux VMs.
  - Intermittently helped out with native development for both IOS (SWIFT) and ANDROID.
- Peculiarities:**
- Held tech talk about accelerated mobile pages (AMP).
  - Held three part tech talk about LINUX and BASH. <https://github.com/haensl/bash-talk>
  - Held a presentation about componentization in modern web engineering at TU Munich.
  - Focussed on mobile web presence.
  - Conducted adhoc UX/IX study with accompanying report.
  - Authored a tech report about ANSIBLE configuration management (*see Publications*).
- 2014–2016 **Co-Founder, CTO**, J&H, Freising..  
Co-Founder and CTO.  
**Details:**
- Commissioned web development of both individual components as well as complete websites using various technologies.
  - Design and implementation of native mobile applications for iOS (OBJECTIVE C) and ANDROID.
  - Commissioned consulting about usability and user centered design.

2011–2014 **Student assistant**, LFE MEDIA INFORMATICS, LUDWIG-MAXIMILIANS-UNIVERSITY, Munich.  
<http://www.medien.ifi.lmu.de>.

**Details:**

Held weekly tutorials accompanying the following lectures:

**Digital Multimedia** Teaching of the fundamental concepts of digital multimedia.

**Multimedia Programming** Programming of multimedia applications and games using PYTHON and JAVA FX.

**Online Multimedia** Technical concepts and implementation of websites and webservice using PHP, JAVASCRIPT, JQUERY, PROTOTYPE and JBOSS/JSP/JSF.

2008–2010 **Working Student**, EFDIS AG, Freising.  
<http://efdis.de>.

Working student in software development.

2007 **Working Student**, BMW GROUP, Munich.  
<https://www.bmwgroup.com>.  
Working student in taxes/national.

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## Education

2010–2014 **Master of Science (M. Sc.) Media Informatics**, *Ludwig-Maximilians-University*, Munich, *GPA – 1.59*.

Focus Areas: User Experience, Security, Distributed Computing, Web and Mobile Applications.

2007–2010 **Bachelor of Science (B. Sc.) Media Informatics**, *Ludwig-Maximilians-University*, Munich, *GPA – 1.75*.

Focus Areas: Human Computer Interaction, Multimedia, Software Development.

SECONDARY SUBJECT: Media Business Studies

2006–2007 **Student of Horticultural Science (B. Sc.)**, *Technical University*, Munich.

1997–2006 **A-Level**, *Georg-Wilhelm-Steller-Gymnasium*, Bad Windsheim, *GPA – 2.3*.

### Masters Thesis

Title *Ask The Crowd: Crowdsourcing Knowledge Generation*

Supervisors Professor Heinrich Hußmann & Alexander De Luca, Ph. D.

Description Evaluation of the potential of crowdsourcing to generate new and interesting knowledge.

### Bachelor Thesis

Title *Supporting association, reminiscing and social discovery in a music player*

Supervisors Professor Andreas Butz & Dominikus Baur, Ph. D.

Description Development and evaluation of a plugin for the music player Songbird that visualises last.fm listening histories.  
<https://youtu.be/WL5N05RmQM>

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## Projects

2018–present **assign-reducers**, HP DIETZ, Munich.

<https://github.com/haensl/assign-reducers>.

Node module to combine Redux reducer function analogous to `Object.assign()`. Available on NPM.

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- 2018–present **JS Profiler**, HP DIETZ, Munich.  
<https://js-profiler.com>.  
 Website that visualizes performance profiles, benchmarks and comparisons for various JavaScript built-ins. This site is essentially the JS Profiler Node.js library brought to live.
- 2018–present **Beacon Tool CLI**, HP DIETZ, Munich.  
<https://github.com/haensl/beacon-tool-cli>.  
 CLI for Beacon Tool. Available on NPM.
- 2018–present **Beacon Tool**, HP DIETZ, Munich.  
<https://github.com/haensl/beacon-tool>.  
 Node.js library featuring a collection of Bluetooth beacon signal utility functions. Available on NPM.
- 2018–present **preact-component-console**, HP DIETZ, Munich.  
<https://github.com/haensl/preact-component-console>.  
 A console/terminal emulator Preact component. Simulates typing via dynamic delays. Available on NPM.
- 2018–present **json-parser**, HP DIETZ, Munich.  
<https://github.com/haensl/json-parser>.  
 Minimal, promise-based JSON file parser for Node.js. Available on NPM.
- 2018–present **minify-inline-json**, HP DIETZ, Munich.  
<https://github.com/haensl/minify-inline-json>.  
 Node.js module to minify inlined/embedded JSON data within `<script>` tags. Available on NPM.
- 2018–present **embed-json**, HP DIETZ, Munich.  
<https://github.com/haensl/embed-json>.  
 Node.js module to inline/embed JSON data into files. Available on NPM.
- 2018–present **OpenSSL Certificate Generator**, HP DIETZ, Munich.  
<https://github.com/haensl/openssl-certgen>.  
 Automated, self-signed certificate generation via OpenSSL.
- 2018–present **mov2gif**, HP DIETZ, Munich.  
<https://github.com/haensl/mov2gif>.  
 QUICKTIME video to GIF animation converter.
- 2018–present **node-amp-mustache-skeleton**, HP DIETZ, Munich.  
<https://github.com/haensl/node-amp-mustache-skeleton>.  
 AMP project skeleton served via NODE.JS featuring MUSTACHE templating and GULP based CI.
- 2017–present **goto**, HP DIETZ, Munich.  
<https://github.com/haensl/goto>.  
 Bash completion for fast project navigation.
- 2017–present **HP Dietz**, HP DIETZ, Munich.  
<https://hpdietz.com>.  
 Design and implementation of my personal homepage.
- 2017–present **HP Dietz**, HP DIETZ, Munich.  
<https://haensl.github.io>.  
 Design and implementation of my personal Github.io page.
- 2017–present **gulp-embed-json**, HP DIETZ, Munich.  
<https://github.com/haensl/gulp-embed-json>.  
 GULP plugin to inline/embed JSON data into HTML files. Available on NPM.

- 2017–present **gulp-embed-svg**, HP DIETZ, Munich.  
<https://github.com/haensl/gulp-embed-svg>.  
 GULP plugin to inline/embed SVG images into HTML files. Available on NPM.
- 2017–present **gulp-minify-inline-json**, HP DIETZ, Munich.  
<https://github.com/haensl/gulp-minify-inline-json>.  
 GULP plugin to minify inline JSON data. Available on NPM.
- 2017–present **vm-php**, HP DIETZ, Munich.  
<https://github.com/haensl/vm-php>.  
 PHP7 project skeleton based on VAGRANT and ANSIBLE featuring development and QA sites as well as MAILHOG.
- 2017–present **The Rovers | Pub Music**, HP DIETZ, Munich.  
<http://rovers.band>.  
 Design, implementation and maintenance of the band's website.
- 2017–present **ng-async-img**, HP DIETZ, Munich.  
<https://github.com/haensl/ng-async-img>.  
 An ANGULAR.JS directive for asynchronous, \$animate-aware image tags. Available on NPM and BOWER.IO.
- 2017–present **JS-Profiler**, HP DIETZ, Munich.  
<https://github.com/haensl/js-profiler>.  
 JavaScript profiling tool, library and benchmark collection. Available on NPM.
- 2016–present **mutt2calcurse**, HP DIETZ, Munich.  
<https://github.com/haensl/mutt2calcurse>.  
 Bash utility to export iCal events from mutt to calcurse.
- 2016–present **ngAnimatedScroll**, HP DIETZ, Freising.  
<https://github.com/haensl/ngAnimatedScroll>.  
 A promise based ANGULAR.JS service to facilitate animated scrolling. Available on NPM and BOWER.IO.
- 2016–present **bytes**, HP DIETZ, Freising.  
<https://github.com/haensl/bytes>.  
 Shell utility to retrieve the disk space consumed by files within a directory.
- 2015–present **htmlelement.polyfills**, HP DIETZ, Freising.  
<https://github.com/haensl/htmlelement.polyfills>.  
 Lightweight, vanilla JavaScript polyfills for most common operations on the HTMLElement interface. Available on NPM
- 2014–2016 **Qake**, J&H, Freising..  
 Design and implementation of the retro arcade game QAKE for iOS.
- 2014 **Spiegel TV Wissen: Wissenwelten**, J&H, Freising..  
 Frontend for the WISSENSWELTEN widget p.p. HEINRICH+GRETCHEN GMBH.
- 2014 **Spiegel Geschichte: Geschichte entdecken**, J&H, Freising..  
 Frontend for the timeline widget p.p. HEINRICH+GRETCHEN GMBH.
- 2013–present **Ask The Crowd**, HP DIETZ, Freising..  
 Design, development and evaluation of the crowdsourcing online portal ASK THE CROWD, which enables users to ask and answer questions, while providing realtime visualizations of the results.
- 2012 **PerCom App**, LUDWIG-MAXIMILIANS-UNIVERSITY, Munich.  
<https://play.google.com/store/apps/details?id=org.percom&hl=en>.  
 Member of the development team for the official Android app of the PerCom conference 2012, Lugano, Switzerland.

- 2011 **MMM - The MultiModal Metronome**, LUDWIG-MAXIMILIANS-UNIVERSITY, Munich.  
<https://youtu.be/9nYjFxxmyPg>.  
Design and implementation of an Arduino-based rapid prototype for a metronome that reacts to external audio stimuli and provides visual cues of the beats.

## Publications

- 2016 **Ansible.tar.gz**, HP Dietz, Technical Report: ANSIBLE Configuration Management  
<https://hpdietz.com/assets/docs/ansible.tar.gz.pdf>.
- 2015 **Controlled Chaos: Randomization in Level Design**, J&H,  
<https://hpdietz.com/assets/docs/controlling-chaos.pdf>.
- 2013 **Ask The Crowd: Crowdsourcing Knowledge Generation**, Ludwig-Maximilians-University, Munich, <https://hpdietz.com/assets/docs/ask-the-crowd.pdf>.
- 2011 **Implicit Authentication on Mobile Devices**, Advanced Seminar: Ubiquitous Computing (P. 83–90), Media Informatics Munich,  
<https://www.medien.fh-lmu.de/pubdb/publications/pub/hausen2011ubicompHS/hausen2011ubicompHS.pdf>.

## Talks

- 2018 **Analytics**, OSRAM, Munich, Application analytics for IoT solutions from conception to solution..
- 2017 **Accelerated Mobile Pages**, CHECK24, Munich, An introduction to Google AMP..
- 2017 **Linux, the Bash & everything**, CHECK24, Munich, Fundamentals of UNIX-based operating systems and shell programming. <https://github.com/haensl/bash-talk>.
- 2016 **Componentization in modern web architectures**, Technical University, Munich, Concepts and architectural patterns of state of the art web applications..

## Certifications

- 2009 Foundation Certificate in ITSM according to ISO/IEC 20000

## Languages

German **Mother tongue**  
English **Fluent**  
French **Basic**

*Basic words and phrases only*

## Interests

- Bass Guitar
- Electronics
- Motorcycling
- Aquascaping

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