

Tobias Kunze

SOFTWARE DEVELOPER · WEB DEVELOPER

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It's me!

An experienced Python and web developer who enjoys building fast and powerful APIs that bring user interfaces and external services closer together. In addition to my 8+ years of experience with Python and Django backend development, I'm also experienced with frontend development, particularly with Vue.js. I'm fluent in Linux server administrative tasks, and active in open source development communities.

Experience

rixx.de Software development

November 2016 – present

FREELANCER

Berlin, remote

- Hosting and development of **pretalx.com**, a conference scheduling platform. Includes software architecture, lead development, system administration, user support, issue triage and community outreach.
- Project development of various web and API projects, including both RESTful and asynchronous (real-time) APIs. Projects include a privacy-sensitive insurance data entry system, rebuilding an entire billing system while in use, and many more. Details and work samples at **dev.rixx.de**.
- Development of various complex plugins for web applications like Pretix or Netbox. Examples include a plugin for secure ticket swaps and resales for pretix, a plugin making it possible to distribute vaccination appointments with pretix, and modelling the entire internal data structure of a large network provider as a netbox plugin to provide network automation.
- Developer training with a focus on advanced Django features and security engineering, both at community conferences (GPN, PyCon Australia) and for clients.
- git consulting: training developers in advanced git use, as well as workflow design for clients switching to git

digital.wolff GmbH

January 2019 – January 2021

SOFTWARE DEVELOPER

Berlin, remote

- Design and implementation of complete web projects, both alone and in teams, including projects with high privacy and security needs, including work on a digital payment provider.
- Project consulting in web UX and web security.
- Web backend development with Python and Django
- Web frontend development with Vue.js.

AX Semantics

September 2015 - December 2018

SOFTWARE DEVELOPER

Stuttgart

- Design and implementation of a microservice architecture with Python and Django.
- Design and implementation of synchronous and asynchronous data transfer between microservices, based on web sockets, Celery, and AMQP.
- Implementation of internal and external REST-APIs.
- Documentation of complex distributed systems.

dmc digital media center

September 2012 - September 2015

WORKING STUDENT IN DEVELOPMENT AND SYSTEM ADMINISTRATIONS

Stuttgart

- Benchmarking und comparison of different primary-primary replication systems for MySQL
- Automatic dynamic scaling of VM clusters
- Web development experience with Java

Education

Duale Hochschule Baden-Württemberg

October 2012 - September 2015

B.SC. IN APPLIED COMPUTER SCIENCE

Stuttgart

- Dual course of study with dmc digital media center GmbH
- Extra credit in machine learning
- Thesis about dynamically scaling virtualisation architecture

Tech stack and experience

Web development

IN-DEPTH KNOWLEDGE

- **Focus areas:** Python, Django, Vue.js
- **Fundamental technologies:** HTML, CSS3, JavaScript, HTTP, RESTful API design

Interpersonal Skills

PROFESSIONAL AND OPEN SOURCE DEVELOPMENT

- Code review and support in Pull Request workflows
- Peer programming and tutoring
- Coordination of volunteer teams
- Issue triage

Other technologies

SUBSTANTIAL EXPERIENCE

- **System administration:** Linux servers, ansible
- **SQL databases:** PostgreSQL, MariaDB, SQLite
- **git:** Workflow consulting, developer training, tutorials

Speaker

PyCon UK

2019

KEYNOTE SPEAKER

Cardiff

- “while history: continue”: Keynote

PyCon Australia

2019

SPEAKER

Sydney

- “Pony, Cat and Paw”: introduction to contributing to Django and other open source projects

GPN

2015-2017

SPEAKER

Karlsruhe

- “Dezentrale soziale Netzwerke: Theorie und Praxis”: discussion of risks and opportunities in volunteer-run social networks, and stories from running a mid-sized Fediverse server
- “Mammut statt Vogel”: Introduction of the new distributed social network Mastodon
- “Commit-Makrame – git-antipatterns”: workflows, antipatterns and limitations in git

PrivacyWeek

SPEAKER

Vienna

- 2017: “Privacy by Code”, current standards and requirements for privacy conscious applications

Volunteer work

Open-Source Software

2013-now

DEVELOPER

- **pretalx**: Conference management software. Founder and lead developer
- **venueless**: Virtual event platform. Founder and developer
- **byro**: Membership management for associations. Lead developer
- **pretix**: Contributions to the pretix ticket sales software, development of various free and open source plugins.
- **Django**: Contributions to the Django web framework. Member of the Django Software Foundation. Moderator in the official Django Discord server.

Conference organisation

2016-now

ORGANISER

- Lead organiser of **DjangoCon Europe** in 2018 in Heidelberg, including budgeting, volunteer coordination, talk review and selection and sponsorship management.
- Organiser of the yearly **MRMCD** conference for IT Security in Darmstadt
- Organiser of the yearly **Chaos Communication Congress (CCC)** conference in Leipzig. Responsible for ticket sales and on-site finance. Held the Opening and Closing talk in 2018.

shackspace e.V.

MEMBER OF THE BOARD, TREASURER 2017-2018, ORGANISER

Stuttgart

- Organisation of workshops for children and adults; organisation of various user groups
- System administration of server infrastructure