

Daniel Schroeder
Full Stack Developer

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- Stack Overflow https://stackoverflow.com/users/2753241/udondan
- GitHub https://github.com/udondan
- ▼ Twitter https://twitter.com/udondan
- 🚵 Keybase https://keybase.io/udondan
- ✗ Xing https://www.xing.com/profile/Daniel_Schroeder66

CERTIFICATIONS

AWS Certified Cloud Practitioner - http://bit.ly/aws-cloud-practitioner

LANGUAGES

German (Native)

English (Professional)

INTERESTS

Home automation (IoBroker)

Astronomy

ABOUT

Professional developer since 2001.

Take **ownership** of projects, problems and solutions.

Build great tooling. Bash hero, Makefile ninja.

Python is the scripting language of my choice – I avoid using scripting languages.

Go is my preferred language.

Can lead, want to code.

I do the full stack:

- ★ Application / Service / Microservice design
- ★ Front- and backend development
- ★ DB schema design PostgreSQL, MySQL
- ★ Observability Metrics, logging, tracing
- ★ Server administration / management & virtualization
- ★ Containers for development, testing, CI and prod
- ★ Infrastructure as code Terraform, CloudFormation
- **Automation**
- ★ CI/CD DotCl, Jenkins pipeline

As important as code is documentation: My code ships with Owner's and/or User's manual.

Plenty of experience working in widely distributed teams. Working remotely since 2013.

Familiar with many **collaboration tools** such as GitHub, Slack, HipChat, Zoom, Fuze, Jira, Asana, Trello, Confluence, MediaWiki...

Not a shamed to admit: I'm using **Stack Overflow** a lot – but I also give back: #3 contributor for **Ansible**. 40k reputation, in list of top 5% answerers for **git**, **Docker**, **ssh**, **Jinja2**, *CSS*...

Enjoy to contribute to **open source**. Inventor of Ansible Silo – https://groupon.github.io/ansible-silo/.

Technologies I want to work with: Go, AWS, Serverless, Bash, Automation, Docker, Python, Chef

Things I don't want to go back to: Ruby, Java, PHP, .NET

EXPERIENCES

Software Engineer SAP Central Services

Nov 2019 – Present DB Systel – Frankfurt, Germany

- ★ Managing SAP Infrastructure in AWS
- ★ Migrating Ansible and CloudForamtion IaT to AWS CDK https://aws.amazon.com/cdk/
- ★ Built autoscaling Ansible Tower cluster

Software Engineer Cloud Core

Nov 2018 – Oct 2019 Groupon Inc – Remote – Frankfurt, Germany

- ★ Managed all company AWS accounts and baseline configuration via Terraform/Terragrunt
- ★ Established a modular, extendable tooling framework based on Terragrunt, aws-okta, tfenv, Terraform Landscape and a lot of Makefile, to get teams started quickly with robust, secure and reliable multi-account IaC
- ★ Designed and built multi-account/multi-environment Terraform CI/CD system based on AWS API Gateway, Lambda, Fargate, DynamoDB and S3

Software Engineer Infrastructure Engineering

Jul 2017 – Nov 2018 Groupon Inc – Remote – Frankfurt, Germany

- ★ VM provisioning, management and user support (KVM/QEMU/Virsh)
- ★ Developed Golang microservice "application" for managing complete lifecycle of VMs (request, approve, allocation, deployment, migration, deletion) based on libvirt, Go kit, GORM, PostgreSQL
- ★ VM console tool written in Golang: Automatically creating SSH tunnels to VM hosts, connecting to VNC port for troubleshooting VMs without SSH connection
- ★ Manually migrated and enhanced graphs and dashboards for 23 services from legacy inhouse graphing tool to VMware Wavefront
- reated system to cache external package repositories
 - Support for Debian and FreeBSD packages but focus on CentOS/RPM (e.g. EPEL, ELRepo)
 - Snapshot tagging for reproducible installations, "Infrastructure Versioning"
 - · Automated upstream syncing
 - · ZFS Replication across 3 data-centers
 - · Functionality to upload custom packages
 - Based on mrepo, FreeNAS, custom Python tooling and Ansible for standard operations
- ★ Containerization of applications to improve reliability/speed of building, testing and deployment (Docker, Docker service)
- Automated image building via Jenkins, DotCl

Software Engineer OPS Engineering

Jul 2014 – Jul 2017 Groupon Inc – Remote – Frankfurt, Germany

- ★ Invented Ansible Silo (Open Source) 100% self-contained drop-in replacement for Ansible, Ansible Version Manager, Playbook Bundler - https://groupon.github.io/ansible-silo/ – https://groupon.github.io/ansible-silo/
- ★ Built "Redis as a Service", large scale high available Redis clusters with configurable number of shards and replication rings.
 - Based on Redis Sentinel, twemproxy/nutcracker (by Twitter)
 - Standard operations and lifecycle management via Ansible
 - · Rack-aware to avoid SPOF
- ★ Created tooling/framework for Ansible >= 1.3 which provided some essential features only introduced with Ansible 2, including Galaxy-like role distribution with support for Ansible plugins
- ★ Set up internal Ansible Galaxy hub and created a complete set of roles for managing whole CentOS 6/7 systems including:
 - DNS resolvers and Named local server configuration
 - NTP configuration
 - · sshd configuration
 - · Network interface configuration incl. bonding and bridges
 - · User management
 - · Kernel settings
 - Automatic (+configurable) log rotation
 - Automatic (+configurable) log forwarding to Splunk
 - Automatic (+configurable) metrics forwarding to Nagios
- Ansible callback plugins for sending events to Nagios, automatic downtime, HipChat notifications
- ★ Serverspec tests for testing Ansible roles

Software Engineer Platform Operations

May 2013 – Jul 2014 Groupon Inc – Remote – Frankfurt, Germany

- ★ Managed global Splunk infrastructure with ~200 indexers and 20+ TB daily indexing volume
- * Splunk user support for scheduled searches and dashboards, review and optimization
- ★ Wrote custom Ruby plugins for Splunk searches
- Managed updates and custom app distribution through Splunk Deployment Server

Head of PHP Development

Feb 2011 – Apr 2013 Groupon Inc – Berlin, Germany

- Responsible for building and leading a PHP development team from scratch with up to 35 developers
- ★ Designed and built PHP applications based on Zend Framework for the high traffic system of the Groupon network
- ★ Technical lead for GrouponShop, Job-, Blog- and premium-partner-systems as well as all Online Marketing applications, e.g. Landingpages, Adwords realtime bidding, Newsletter-, Tracking and Ad-Systems

Senior PHP Developer

May 2007 – Feb 2011 publicgarden GmbH – Berlin, Germany

- reated websites for various customers, mostly based on webEdition and Drupal
- nstalled, configured and themed various Forum-, Blog- and Shop-systems
- ★ Development of PHP applications and modules for various systems (Drupal, webEdition, Magento)
- ★ Created HTML/CSS-Templates based on PSD drafts

Freelancer

Sep 2004 – Feb 2011 Self-employed – Berlin, Germany

- * Contract work for various agencies. HTML, CSS, JavaScript, PHP, CMS (mostly webEdition)
- reated HTML/CSS-Templates based on PSD drafts.

IT application development specialist (apprenticeship)

Apr 2001 – Aug 2004 silver.solutions GmbH – Berlin, Germany

- ★ Apprenticeship "FIAE" (Fachinformatiker Anwendungsentwicklung IT application development specialist)
- ★ Developed web applications based on HTML, CSS, JavaScript, XML, PHP, webservices and databases (MySQL, Xindice, Tamino)
- ★ Built websites based on content management systems (eZ Publish, Imperia 5)

Carer in area of education

Oct 2000 – Apr 2001 Regenbogenfabrik e.V. – Berlin, Germany

- ★ Took care of children and teenagers in the internet café "Globales Lokal"
- * Administered SuSE Linux clients
- ★ First contact with HTML and PHP by maintaining the website of "Globales Lokal"
- ★ Gave HTML introduction courses for interested kids