VEIT NACHTMANN

"Experienced DevOps Engineer & IT Architect with over 15 years of expertise in designing, developing and scaling highly available and secure infrastructures. Specialized in cloud computing, virtualization, CI/CD automation and AI/ML integration.
Proven success in the migration of complex systems, the optimization of DevOps pipelines and the implementation of innovative technologies to increase efficiency, security and performance.
Extensive experience in AWS, Kubernetes, Docker, Terraform, Ansible and security audits. Profound knowledge in machine learning, from model training to deployment, as well as in the automation of AI pipelines.
Known for a solution-oriented way of working, agile thinking and the ability to implement complex technical concepts strategically and operationally."

PERSON

Name Veit Nachtmann
Address Martin-Luther-Str. 120, 10825 Berlin - Germany
Phone +49 175 551 11 17
Email veit@nachtmann.it
Born on December 23, 1987 in Würzburg, Germany

CORE COMPETENCIES

- **Architecture & Scaling:** Design and development of high-performance, high-availability and secure platforms

- **AI/ML & Data Science:** Development, deployment and optimization of machine learning models and automation of AI pipelines

- **DevOps & Automation:** infrastructure as code, CI/CD pipelines, containerization and orchestration

- **Cloud & Virtualization:** Setup, migration and operation of cloud and on-premise environments

- **Security & Compliance:** security architecture, security audits, network segmentation and authentication systems

- **Networks & Infrastructure:** High availability networks, firewall management, load balancing and data center technologies

PROFESSIONAL EXPERIENCE

Carl Zeiss Semiconductor Manufacturing Technology (ZEISS SMT)
DevOps Engineer
July 2023 - December 2024 (18-month temporary employment)

- Designing scalable infrastructures to support machine learning workflows and AI-driven analytics solutions
- Automated migration from VMWare to Proxmox
- Introduction of Docker into existing build and test processes
- Containerization of existing applications for migration to new hardware
- Creation of Ansible playbooks for the automation of manual tasks
- Carrying out a security audit of the infrastructure
- Development of a CI-compliant Redmine theme for communication with ASML
- Management of the Anaconda infrastructure
- **Technologies**: Ansible, Docker, Kubernetes, VMWare, Proxmox, Python, Active Directory, Apache2, NginX, Redmine, Jenkins, Miniconda, Anaconda Managed Python

BWI GmbH (on behalf of the Bundeswehr)
Freelance DevOps Engineer
May 2022 - July 2023

- Migration from VMWare vSphere to OpenStack and Proxmox
- Creation of Ansible Playbooks
- **Technologies**: VMware vSphere, VMware ESX, VMware vRealize, OpenStack, Proxmox, Ansible

Illumidel.com
Freelance Embedded Systems Engineer
February 2022 - April 2022

- Development of an embedded solution for controlling individual LEDs based on a custom fork of the WLED control software for ESP32
- **Technologies**: C++, ESP-IDF, Arduino, WebSocket, HomeAssistant

EDUCATION

Computer Science Studies
University of Würzburg & Free University of Berlin
2007 - 2015

A-Levels
Gymnasium Schloss Hagerhof, Bad Honnef
2001 - 2007

- *2004 - 2005*: Year abroad during 11th grade in Oregon, USA

IT-SKILLS

Machine Learning & AI
- **ML frameworks**: TensorFlow, PyTorch
- **AI/ML deployment**: model deployment, AI pipeline automation, model performance monitoring
- **Data processing**: NumPy, pandas, Scikit-learn

Virtualization & Containerization
- 10y Docker, 9y Kubernetes, 15y Proxmox, 7y VMware, 4yOpenStack, Xen, KVM, LXC, Vagrant, VirtualBox

Cloud Computing & APIs
- 9y AWS, 5y Azure, Hetzner

Operating Systems
- Linux, Unix (Solaris, IBM AIX), Microsoft Windows Server

Web & Proxy Server
- **Web server**: NginX, Apache2, Lighttpd
- **Proxy server**: Squid, Varnish

Application Server & Object Storage
- **Application server**: Passenger, Mongrel, Tomcat, Glassfish, Jetty
- **Object Storage**: MinIO

CI/CD & Automation
- Ansible, CDK, Terraform, Puppet, Rundeck

Monitoring & Logging
- Ganglia, New Relic, DataDog, Grafana

Databases & Caching
- **Databases**: MySQL, PostgreSQL, Oracle, Elastic (Enterprise) Search, CouchDB, Cassandra, Redis
- **Message Queues**: RabbitMQ (Cluster)
- **Caches**: Memcached, Redis

Web technologies & CMS
- **Content manipulation**: Greasyspoon, Mod_Pagespeed
- **CMS & ticket systems**: Typo3, Wordpress, Drupal, Redmine

Mail server
- Postfix, Exim4

Funkelfetisch / NEBULITE Berlin
Founder & DevOps Engineer
Since December 2019

- Management of the wearable tech fashion label and development of innovative lighting technology for clothing and accessories
- Training of ML models to recognize braking processes
- Development and operation of DevOps infrastructures
- Web design, automation, product development and series production
- Creation of Ansible playbooks and n8n workflows to automate manual tasks
- **Technologies**: Ansible, Docker, Zammad, OpenProject, CloudFlare, AWS Lambda, IoT, Shopify Liquid, WooCommerce, Fusion360, KiCad, ESP32, Ionic5, Angular, Apache Cordova

MSA Deutschland GmbH / safety io GmbH | Berlin, Germany
DevOps Engineer
June 2016 - November 2019

- Development and operation of an AWS-based IoT infrastructure with CI/CD pipelines
- Automated deployment of development and production environments via Ansible
- Creation of Ansible playbooks and plugins
- Setup and management of SIEM solutions with Splunk and Datadog
- Design of high-availability networks and VPN structures
- **Technologies**: AWS (Lambda, Kinesis, EC2, IoT, RDB, S3, EKS, ECS, ECR, CloudFormation), Ansible, Python, Kubernetes, DC/OS, Splunk, Jenkins, OpenVPN, Keycloak

Bitplaces GmbH | Berlin, Germany
DevOps Engineer
February 2015 - March 2016

- Migration of the AWS-based platform to Frankfurt
- Management of a load-balanced Java application with weekly deployments
- Implementation of Cassandra, Elastic and RabbitMQ clusters
- **Technologies:** AWS, Puppet, Terraform, Docker, Cassandra, RabbitMQ, Elastic, Kibana, Tomcat, Jenkins, NginX

ressourcenmangel GmbH | Berlin, Germany
Freelance DevOps Engineer
August 2009 - December 2014

- Design and implementation of high-availability and high-performance infrastructures for various customers, including
  - **gruene.de** (Proxmox, KVM, CouchDB, RoR, MySQL)
  - **energiedebatte.com** (MySQL replication, Typo3, load balancer)
  - **zensus2011.de** (XEN, Typo3, NginX, CDN)
  - **bmg.bund.de** (Typo3, MySQL, NginX)
  - **moz.de** (Typo3, MySQL replication, Varnish)
- Administration and automation with Puppet
- Establishment of a centralized infrastructure for development servers
- **Technologies:** Ansible, Puppet, Proxmox, XEN, AWS, NginX, Apache, MySQL, Redis, Typo3, Varnish

Programming Languages & Frameworks

- **Languages**: 15y JavaScript, 9y Python, PHP, Perl (RegEx), Bash, Java, C, C++, TypeScript, SQL, XUL, Ruby
- **Frameworks**: 5y NodeJS, 3y React Native, 15y jQuery, Ruby on Rails, Java EE, 2y AngularJS, Ionic5

Build & Version Control

- **Build software**: Jenkins, Maven
- **Version control**: 15y Git, SVN

Network & Security

- **VPN technologies**: (Open/Cisco) VPN, WireGuard, PPTP, IPSec
- **Firewall & Routing**: Juniper/Brocade firewalls, switches and routers

Data Center Hardware

- Sun Fiber Channel Storage Area Network
- Sun SPARC Enterprise Server
- HP ProLiant Server

LANGUAGES

German Mother Tongue
English Fluent

FURTHER EXPERIENCE

Co-founder of Lichtfetisch
www.lichtfetisch.de

- Conception and installation of innovative light art using LEDs, lasers and microcontrollers
- Organization and implementation of dance events with up to 600 guests, including location management and event planning

Founder of Funkelfetisch
www.nebulite.berlin

- Successful implementation of a crowdfunding project for the world's first collection of fiber-optic illuminated bags and clothing
- Independent development of intelligent functions such as the detection of braking processes when cycling with visual warning signals for greater road safety

REFERENCES

Available on request

Independent Development
Freelance Embedded Systems Engineer
February 2014 - September 2014

- Development of Atmel ATmega-based modules for wireless synchronization of lighting effects based on accelerometer data and DMX signals
- **Technologies:** C++, Assembler

Spreadcommerce GmbH
Co-Founder & Lead Engineer
February 2012 - December 2014

- Development of a proxy for the mobile content adaptation of existing online stores
- Architecture and operation of the platform infrastructure
- **Technologies:** Java EE, Jetty, NodeJS, AngularJS, TamperMonkey, Android SDK, CouchDB, Varnish, NginX

The Unbelievable Machine Company GmbH | Berlin, Germany
Freelance Datacenter Architect
May 2011

- Development and maintenance of data center infrastructures for customers such as mytoys.de and the ZDF media library

nachtmann.it UG
Founder & Managing Director
January 2010

- IT consulting, DevOps engineering and infrastructure projects

Bahn Fachverlag | Berlin, Germany
Freelance IT Consultant & System Administrator
December 2009 - January 2010

- Infrastructure modernization and server consolidation

nightlyhost.de, nightlycode.de, nightlyhelp.de
Founder & Operator
July 2008

- Hosting and software solutions for various customers

Institute of Pharmaceutical Biology, University of Würzburg
System & Network Administrator
November 2007 - February 2009

- Support for Microsoft Windows clients and network infrastructure

Hochbegabtenförderung e.V.
Lecturer - Computer Courses
Occasionally

Nörr Computers and Networks | Würzburg, Germany
Intern - IT Systems Electronics Technician
2003 - 2004