

# Henrik Jess Nielsen

Computer Engineer



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**OS Preference**  
Linux ★★★★★  
Unix/BSD ★★★★★☆  
Windows ★★☆☆☆  
macOS ★★☆☆☆  
*Linux/Unix primary since 1993*

## Summary

### About me

[Resume](#)

Senior DevOps Engineer with 30+ years of Linux/Unix expertise, specializing in Azure-to-Kubernetes migrations and Infrastructure as Code (Bicep, Terraform, Python). Proven track record in containerization, CI/CD automation, and cloud-native platform architecture.

Background in electrical engineering and industrial systems (Fl.Smidth - Qatar, Egypt, Nigeria deployments) brings systematic troubleshooting and LEAN methodology to DevOps practices. Align cross-functional teams spanning engineering, compliance, security, and business stakeholders to deliver observable, secure, and scalable platforms.

Active open-source contributor (RefactorMCP - 90% token cost reduction for Python analysis). Operate enterprise-grade self-hosted infrastructure since 1994, managing 10+ production services across multiple hosts including DNS (authoritative, recursive, load-balanced), email with anti-spam/antivirus, multi-database environments, container orchestration with service mesh, private container registry, Git hosting, secrets management, ERP systems, and distributed file synchronization. Three decades of hands-on system administration with consistent day uptimes.

## Experience

### 2024-Present **Senior DevOps Engineer**

[Lindhardt og Ringhof Uddannelse \(LRU\)](#)

Leading the transition from Azure Web Apps to Kubernetes platforms, including container build standards, deployment pipelines, and staged migration plans. Designing reusable Bicep modules and Python tooling to automate provisioning, monitoring, and governance guardrails across environments. Collaborating with product, security, and compliance stakeholders on GDPR, ISMS groundwork, and operational resilience initiatives.

### 2023-2024 **DevOps Specialist / Kubernetes**

[EvryOne Group ApS](#)

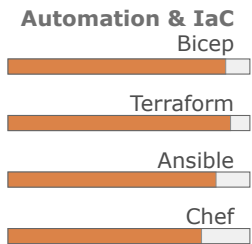
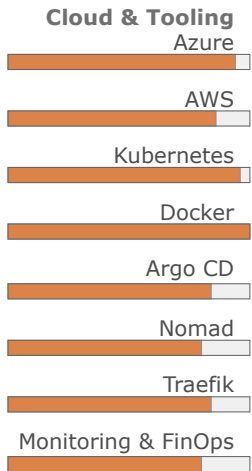
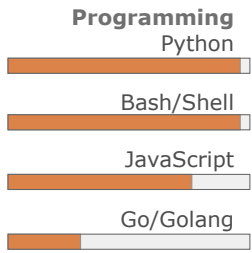
Provided Azure Cloud and AWS infrastructure using Terraform, Argo CD, Docker Swarm, and cost optimization practices while aligning developers and management on compliance needs. Created streamlined CI/CD workflows and custom Docker images to deliver consistent environments, and guided migrations from hosted solutions to Azure Cloud and AWS production platforms. Responsibilities covered containerisation, automation, and cloud migration to enhance efficiency and scalability.

### 2022-2023 **DevOps Tech Lead / Solutions Architect**

[Ordrestyring.dk ApS](#)

Providing cloud infrastructure solutions based on Amazon Web Services (AWS) and Azure, focusing on transitioning from on-premises to cloud-based environments. Ensure alignment with organizational goals and leverage GitLab custom tooling to create efficient and consistent environments for the software development life cycle (CI/CD).

With expertise in custom building Docker images and optimizing GitLab,



developing infrastructure to support Docker setups and hosting. Additionally, utilizing Infrastructure as Code (IaC) principles and migrating bare-bone hosted solutions to cloud production environments. Responsibilities encompass end-to-end containerization, automation, and cloud migration to enhance efficiency and scalability.

2020-2022 **DevOps Engineer / Retail IT / Solutions Architect** Hobbii AS

Solutions Architect on various projects and issues, everything from finance tasks to retail systems. Providing infrastructure solutions based on Amazon Web Services (AWS) in a fast-paced, challenging, innovative company. Working on implementing Odoo, payment terminals, POS equipment, and electrical Q&A in shops. Working with GitLab to manage source code repositories and perform branching, merging, and tagging. Involved in building and configuring Debian-based Linux servers. Research, endorse, and implement network enhancements, improving system reliability and performance.

2019-2020 **ERP Specialist / Implementation Consultant / DevOps** VK-Data

Manage multiple clients and issues. Define testing scenarios and develop test scripts, develop end-user documentation and training materials, support clients with the execution of test scripts, and analyze client-reported Odoo financials, supply chain, manufacturing, CRM, and project issues.

2017-2019 **Software Engineer - DevOp / ERP** ASERGO Scandinavia

ERP integration, business logic implementation. Developed, implemented, and rolled out new ERP system based on project needs (Odoo). Setting up staging environments for testing and development. Developing Git hooks for the local repository (code commit) and remote repository (code push) functionality. Worked with technologies such as Java, Python, Scala, Scrum, PostgreSQL, HTML5, JavaScript, jQuery, Kubernetes, Git, and online payments.

2016-2017 **Software Engineer - DevOp / Lead Dev.** eResponse

Q & A operations, quality control, and people project management. Implementation of various internet-based applications. Expert in a variety of platforms, languages, and embedded systems – designer, developer, and tester.

2015 **Internship** Zentao ApS

Management and migration of servers. Development of web templates and interfaces. Management of SQL databases, development of end solution for clients.

2011-2015 **Electrical Contractor & IT Consultant** i80 - Self-employed (from 2013)

Founded i80 consulting practice (2013) combining electrical contracting with emerging IT infrastructure work. Provided electrical system design and installation for commercial/residential projects while completing Computer Engineering degree and building Linux/Unix expertise through self-hosted infrastructure. Transitioned to full-time DevOps and software development after graduation in 2015.

**Places Lived**  
Denmark

**Work Deployments**  
Qatar  
Egypt  
Nigeria

**Languages**  
Danish ★★★★★  
English ★★★★★  
Swedish ★★☆☆☆  
German ★☆☆☆☆

**Personal Skills**  
Cloud platforms  
Compliance  
Observability  
CI/CD pipelines  
Infrastructure as  
Code  
DNS & Email  
systems

2007-2009 **Field Engineer / EPDS Specialist / Electrical Engineer** FLSmith  
Field Engineer and EPDS specialist (Cable Routing). Identifying strategic improvements to product life cycle (LEAN) and product testing and validation. Troubleshooting on commercial and industrial installations on site (Qatar, Egypt, Nigeria). Planning of projects, maintenance, and calibration of equipment and systems.

## Education

2011-2015 **Degree in Computer Engineering** EASJ Sealand - Denmark  
Curriculum Networking and Multimedia.  
Main subjects: Network Applications, Systems Architecture and Security, Network security  
Sub subjects:, Mobile Applications, Multimedia Information Processing.

2005 **TEQ** Frederiksberg Tekniske Skole  
Good understanding of Electrical Drawings, Planning of Projects, Erection and Maintenance. Both practical as well as theoretical knowledge of Different Electrical Instruments. Projecting and pricing projects

## Other Information

### Programming / Scripting

Python, JavaScript, Go, Bash, sh, zsh

### Linux and Unix systems

*30+ years experience:* Debian Linux, Ubuntu Linux, Arch Linux, RedHat Linux, CentOS Linux, FreeBSD, OpenBSD, Solaris. Primary desktop/server OS since 1993.

### Infrastructure Services

*Self-hosted Production:* PowerDNS, BIND9, DNSdist, Dovecot, Exim4, SpamAssassin, ClamAV, PostgreSQL, MariaDB, Redis, NFS, DHCP, WireGuard, ZeroTier, HestiaCP, Prometheus, Munin

### DevOps tools

*Work / Project related:* Jira Software, Confluence, Slack, Docker, Kubernetes, Argo CD, Bicep, Terraform, Ansible, Chef, GitLab, GitHub, Gitea, Jenkins, Nomad, Traefik, Consul, Azure, AWS, New Relic, Pingdom, Nagios

### Web Frameworks

*Modern/Active Experience:* Django, Flask, FastAPI, Laravel, Wagtail

## Notable Projects

2024 **RefactorMCP**

[Open Source - MCP Server](#)

Comprehensive FastMCP 2.0 server for Python code analysis and refactoring. Provides specialized tools for complexity analysis, PEP compliance, type hints, and automated refactoring. Reduces LLM token costs by 90% while delivering production-ready code quality improvements.

2023-2024 **Azure ToolBox**

[Internal Tools](#)

Suite of Python packages for Azure resource management, monitoring, and automation. Includes modules for database operations, storage management, Key Vault operations, RBAC, and structured logging.

1994-Present **i80 - Self-Hosted Infrastructure & Consulting**

[Private Cloud - i80.dk](#)

Enterprise-grade infrastructure spanning 10+ production services across multiple hosts. Core infrastructure includes authoritative and recursive DNS with load balancing, complete email platform with anti-spam and antivirus protection, multi-database environment (relational and key-value stores). Container orchestration with service mesh, service discovery, and high availability configurations. Private container registry and Git hosting for source control. Secrets management and encryption key storage. Distributed file synchronization across nodes. ERP system administration and custom business application hosting. Full monitoring and observability stack with metrics collection and alerting. VPN networking with multiple overlay networks. NFS cluster for shared storage. Multi-tenant web hosting with control panel. 30+ years of Linux/Unix system administration with consistent day uptimes. Occasional consulting engagements providing specialized DevOps and infrastructure advisory services.