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Steinn Hauser Magnússon

Cloud Operator @ SENEC GmbH · Berlin, Germany

PROFESSIONAL EXPERIENCE

February 2026 – Present

Cloud Operator · SENEC GmbH

Responsibilities:

- ➢ Management of multiple large-scale Kubernetes clusters using Terragrunt, GitLab CI/CD, Helm templating with custom charts, and ArgoCD, integrated with monitoring systems such as Grafana, Prometheus, and Alertmanager.
- ➢ Operation of 50+ Ansible-managed servers, including in-depth development of a secure pipeline for automated maintenance updates on WireGuard-connected hosts, with a strong focus on strict access policies and secure networking.
- ➢ Oversight and development of an automated server update and maintenance system featuring custom aptly-based repository mirrors, an API gateway for scheduling host update maintenance slots, dashboards for host package lists and update overviews, and a lightweight golang-based client for automated and mTLS-secured maintenance checks.

March 2023 – January 2026

Software Developer · SENEC GmbH

Responsibilities:

- ➢ Oversaw development, maintenance, and migration of multiple Azure Function App microservices integrating enterprise solutions (CRM, Business Central) with internal and external services.
- ➢ Focused on architectural design and implementation using Terraform and Terragrunt, delivering modularized releases and modern CI/CD pipelines.
- ➢ Contributed significantly to developing a containerized deployment framework for microservices, enforcing strict governance-compliant policies across Azure Key Vault, Storage Account, MongoDB/PostgreSQL, Virtual Network, API Management Service, and Service Bus resources.
- ➢ Demonstrated leadership and communication through team management, stakeholder coordination, and development of frameworks for onboarding and training new team members.

January 2022 – February 2023

Senior Data Scientist · Future Ready AS

Responsibilities:

- ➢ Develop and maintain an application for LLM chatbot technology, providing an online learning platform to simulate call-center conversations to users using Django, Flask API, and Azure-based architecture.
- ➢ Manage frontend, and UX developer teams to design and build an interactive learning platform online.
- ➢ Leadership and communication experience through management meetings with external shareholders and investors, alongside training and management of new team members.

November 2020 – December 2021

Data Scientist · Future Ready AS

Responsibilities:

- ➢ Provide sales analytics of telecommunications data to identify strengths in sales representatives. Developed a natural language processing model capable of transcribing calls and capturing key sales techniques which lead to product sales.
- ➢ Extensive use of python libraries such as rasa, numpy, pandas, django, and pyspark.

February 2020 – July 2020

Cluster Project Manager · University of Oslo Physics Department

Responsibilities:

- ➢ Built a rack of computational nodes using hardware donated from the Abel supercomputer.
- ➢ Set up cluster software and node connectivity using the ROCKS High-Performance Computing ISO.

CERTIFICATIONS

ITIL 4 Foundation, IT Service Management certification provided by PeopleCert
Azure Administrator Associate, Microsoft Certification AZ104

EDUCATION

August 2019 – June 2021

MSc. in Computational Science: Physics · University of Oslo, Norway

Thesis: 'Evaluating Approximate Methods for Computing Extracellular Potentials from Neuronal Networks'
Advisors: Gaute Einevoll & Espen Hagen | **Grade**: A | **Publication**: Hagen E, Magnusson SH, et al. (2022) [1]

- The kernel and hybrid Local Field Potential (LFP) approximation methods from Hagen E et al. (2016) [2] were applied in various network conditions, and a thorough evaluation of the methods was conducted.
- Neuronal networks were simulated using python and the LFPy library, where computational optimizations of the local field potential (LFP) signals were of particular interest.

Spring 2019

Theoretical Physics · McGill University, Montréal Canada

Key topics:

- General relativity, Applications of Quantum Mechanics, Physics of Fluids.

August 2016 – June 2019

BSc. In Physics and Astronomy · University of Oslo, Norway

Key projects:

- **4D Space Numerical Workshop, Kobe University**: Conducted numerical simulations of the effects of the ionosphere on the NORSAT-1 satellite using the Kobe University supercomputer.
- **CaNoRock XVI, Andøya Norway**: Conducted numerical simulations of rocket trajectory prior to launch to estimate drag coefficient and landing site.

SKILLS

Languages:
English (Native), Icelandic (Native), Norwegian (Fluent), German (Working Proficiency)

Technologies:
Python, Terraform, Kubernetes, Docker, Linux, Git, Ansible, Go, ArgoCD, Traefik, Azure, AWS

VOLUNTEER EXPERIENCE

September 2024 – January 2025

Guest Developer · Max Planck Institute for Human Cognitive and Brain Sciences

- Helped develop, package and formalize a tool for cardiac artefact removal in spinal electrophysiology data as part of the open-source MNE-Python library. [3]

January 2017 – June 2020

Mathematics Tutor · ENT3R

- Alongside my own university classes, I tutored students aged 16 to 18, helping them prepare for their final exams in advanced mathematics and the sciences.

[1] Hagen E, Magnusson SH, et al. (2022) Brain signal predictions from multi-scale networks using a linearized framework. PLoS Comput Biol 18(8): e1010353. https://doi.org/10.1371/journal.pcbi.1010353
[2] Espen Hagen, et al. "Hybrid Scheme for Modeling Local Field Potentials from Point-Neuron Networks", Cerebral Cortex, Volume 26, Issue 12, 1 December 2016, Pages 4461–4496, https://doi.org/10.1093/cercor/bhw237
[3] mne-python pull request can be found at: https://github.com/mne-tools/mne-python/pull/13037