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Objective ___

DevOps Engineer with a PhD in Computational Physics, specializing in the automation and optimization of infrastructure for seamless, scalable application deployment. Expertise in HA Kubernetes orchestration, CI/CD pipelines (Azure Pipelines, ArgoCD), and Helm chart management. Experienced in containerization, monitoring, and alerting (Grafana/Prometheus), as well as deployment tools. Recognized for exceptional problemsolving skills and the ability to quickly adapt to complex technical challenges.

Skills

Kubernetes, Helm, Git, Docker, Grafana (LGTM), Prometheus, Open Telemetry, Argocd, Azure DevOps, Ansible, ... Python, Shell, Tex, Matlab, C++, Fortran.

Work Experience _____

Bordatech Istanbul, Turkey

Mar. 2023 - Present **DEVOPS ENGINEER**

- Transitioned from freelance to a full-time employee in October 2024,
- Managing and maintain 10+ HA Kubernetes clusters and 500+ pods with 99.9% uptime,
- Planning sprint tasks, documenting wiki pages, and presenting weekly reports to the teams,
- · Improved code deployment efficiency by automating processes with CI (Azure) / CD (Argocd) pipelines,
- Creating multi-tenant observability architecture and dashboards for monitoring/alerting,
- Managed, backed up, and optimized Minio, MongoDB and PostgreSQL, ensuring high availability and data integrity,
- Automated manual tasks through scripting languages using python/shell/Ansible.

Mimar Sinan FA University

Istanbul, Turkey

RESEARCH ASSISTANT

May. 2017 - Oct. 2024

• Teaching Computational Physics With Python

GSI Helmholtz Centre for Heavy Ion Research

Darmstadt, Germany Oct. 2018 - Mar. 2019

- Used python/fortran to model neutrino nucleosynthesis network calculations on HPC,
- · Generated massive nuclei production data and performed analysis to compare them with Solar System abundance.

Education

- Jun. 2022 **Doctor of Philosophy in Physics**, Mimar Sinan FA University, Istanbul, Turkey
- Jun. 2015 Master of Science in Physics, Mimar Sinan FA University, Istanbul, Turkey
- Jun. 2012 Bachelor of Science in Applied Physics, Istanbul Technical University, Istanbul, Turkey

Projects

- 2023 2025 myk8s: Personal Dev K8s, Github, Project Owner
- 2022 2024 Computational Methods Lecture Notes, Github, Project Owner
- 2015 2021 collNu: Python code for neutrino flavor transformation, Github, Project Owner
- 2020 2020 High Performance Computing of Supernova GSI/FAIR, Executive (cancelled due to pandemic)
- 2018 2019 Nucleosynthesis in Core-Collapse Supernova TÜBİTAK, Executive

Certificates

Jan. 2024 Cilium LB-IPAM & L2, Isovalent

Feb. 2023 Observability Fundamentals, Elasticsearch

Publications

Aug 2022 Spin-Flavor Precession Phase Effects in Supernova, T. Bulmus, Y. Pehlivan

JPS Conf. Proc.

Sep 2017 Astrophysical Neutrinos and Flavor Evolution With Self Interaction, T. Bulmus, Y. Pehlivan

CIOP