Mannheim
Germany

D o m e n i c   G o s e i n

LinkedIn/ GitHub: goseind

Employment

Software Engineer, Technical Student	**CERN**	**Sep 2022 – Sep 2023**

- Innovated physics data lake and analysis platform by redesigning to cloud-native architecture and deployment.
- Implemented SSO by extending the front end. Added OAuth and OIDC to the back end and user installation options.
- Reduced manual testing effort through CI/CD automation of Helm chart linting and testing.
- Improved container and Helm charts by extending template logic and installation values.
- Wrote master's thesis: IT Architecture Design of a Future Data Analysis System for Particle Physics at CERN.
- <u>Skills</u>: **Python**, Git, React, Kubernetes, Docker, Helm, Flux, Jupyter, Grafana, OpenStack, GitHub Actions.

SRE, Working Student	**EDEKA Digital**	**May 2021 – Aug 2022**

- Managed cloud infrastructure in Google Cloud/ Azure for retail apps through IaC and CI/CD.
- Shaped a new cloud operating model by introducing SRE principles.
- <u>Skills</u>: **Bash**, Git, Kubernetes, GitHub Actions/ GitLab CI/CD, Terraform, Helm, Datadog.

Consultant, Dual Student	**EY**	**Sep 2017 – Apr 2021**

- Automated IT audit steps through query enhancement for web-based audit tool for ERP systems (SAP).
- Audited IT security of industrial customer systems.
- **EY China (Three-month assignment):** Assisted with cross-country audits for German clients in Shanghai.

IT-Administrator, Full-Time	**Kern-Liebers**	**Sep 2012 – Aug 2017**

- **Kern-Liebers Mexico (One-year assignment)**
  - Oversaw the successful set-up of the IT infrastructure for a new subsidiary in Querétaro.
  - Installed server and network hardware and integrated the new infrastructure into the global system landscape.
- Managed Linux and Microsoft systems for data centre virtualisation, storage management and networking.
- Managed global network devices infrastructure (switches, routers and firewalls).

Education

Mannheim University of Applied Sciences	**since Sep 2021**

- M. S. in Computer Science (major Software Engineering), Current Grade Average: 1.0
- <u>Coursework</u>: Robotics, DevOps and Micro Services, Machine Learning, Reverse Engineering, Big Data Engineering, Cryptography, Design Thinking.

Baden-Württemberg Cooperative State University Mannheim	**Oct 2017 – Sep 2020**

- B. S. in Business Informatics (major International Management for Business and IT), Grade Average: 1.9
- <u>Coursework</u>: Programming, Algorithms, Data Structures, Distributed Systems, Networking, Databases, Economics.

Vocational School Villingen-Schweninngen/ Kern-Liebers	**Sept 2012 – Jan 2015**

- Apprenticeship IT-Specialist (specializing in systems integration).

Projects and Additional Experience

- **Personal Website and Blog:** www.gosein.de. <u>Used</u>: Jekyll.
- **Krypto Learn App:** Developed an Android app that teaches the mathematical foundations of cryptography and implements common algorithms. <u>Used</u>: React Native JS, Expo, Google Play Console, Google Cloud.
- **Formula Student Germany:** Worked on the driverless race car implementation. <u>Used</u>: Docker, ROS.
- **Object Detection**: Developed Kalman Filter tracking and DBSCAN clustering algorithm for 3D radar object detection. <u>Used</u>: Python.
- **Autonomous Robot:** Developed a robot for detecting and collecting objects. <u>Used</u>: Python, YOLO, ROS.
- **Twitter Clone:** Developed Twitter clone. <u>Used</u>: Apache Cassandra, React JS.
- **Wordcloud Web App:** Developed online TXT to PNG word cloud generator. <u>Used</u>: Apache Spark, Flask, HTML/CSS.
- **Lightning Talk JupyterCon:** Showcased the European research data lake and analysis platform at CERN.
- **Student Speaker:** Elected student speaker to the Faculty of Economics at the DHBW.

Languages and Technologies

- Python, JavaScript, Bash, YAML, SQL, HTML/CSS, LaTeX.
- Git, Linux, Kubernetes, Docker, Helm, IaC (Terraform), GitOps (Flux, ArgoCD), CI/CD (GitHub Actions), Google Cloud, Microsoft Azure, OpenStack, Grafana, Kibana, Jupyter, ROS, Dask, Spark, Hadoop, Flask, Scrum.
- German (native), English (fluent), Spanish (conversational), French (basic).