Stanislav Kosorin

 Berlin, Germany | ✉ s@kosorin.com | 🌐 kosorin.com

 linkedin.com/in/kosorin | ⦿ github.com/stano45

Education

Technical University of Berlin, M.Sc. in Computer Science — Apr 2024 - Present
- **Specialization:** Distributed Systems and Networking
- **Coursework:** Cloud Computing, Data Center Networks, Software-Defined Networking, Network Security, 5G/6G Software Networks, Compiler Design

Technical University of Berlin, B.Sc. in Computer Science — Oct 2020 - Apr 2024
- **Final Thesis:** Proactive container migration in a simulated low-Earth orbit (LEO) edge environment (Grade 1.0). github.com/stano45/celestial-container-migration
- **Coursework:** Algorithms and Data Structures, Distributed Systems, Networking, System Programming, Continuous Software Engineering, Functional Programming

Experience

Software Dev Engineer Intern, Amazon Web Services (AWS) – Berlin, Germany — Mar 2025 - Sep 2025
- Built an EMR cluster core capacity prediction system for the S3 Express One Zone metering service
- Deployed to production regions and reduced metering costs by ~65% while keeping cluster runtimes predictable
- Worked with core AWS services such as S3, EC2, CloudWatch, CloudFormation, and IAM

Software Engineer (Working Student), Cresta – Berlin, Germany — Nov 2022 - Mar 2025
- Built a management console in React (Typescript) for configuring and monitoring internal workloads
- Contributed to the implementation of a scalable data processing pipeline using Go and Temporal
- Built a GitHub Actions CI/CD pipeline for synthesizing voice conversations for end-to-end testing

Software Engineer (Working Student), PTX tech – Berlin, Germany — Nov 2021 - Nov 2022
- Built a multi-threaded processing pipeline using C/C++ (Qt5) with GPU offloading
- Integrated a GPU-accelerated SLAM algorithm, achieving a ~10x speedup for 3D point cloud processing

Projects

Google Summer of Code
- **Project:** P4-Enabled Container Migration in Kubernetes (summerofcode.withgoogle.com)
- Integrated P4-based load balancing into Kubernetes via a custom CNI plugin
- Built an SDN controller in Python for dynamically configuring the BMv2 software switch
- Wrote a custom load balancer program in the P4 language

Slovak Language Learning App
- **Website:** learnslovak.sk
- Full-stack language learning app with a Next.js frontend, Go backend, PostgreSQL database, Clerk authentication, and Oracle Cloud Infrastructure (OCI) for content delivery and compute
- Built a CI/CD pipeline for VPS deployments using Docker compose, GitHub Actions, and GHCR
- Created custom learning content through a mix of AI generation and manual work

AsyncAPI Microservice Generator
- **Repository:** github.com/Programmierpraktikum-MVA/AsyncAPI
- Generates Rust projects from AsyncAPI specifications with dependencies and docs
- Supports NATS, OpenTelemetry, Open Policy Agent, structured logging, and Kubernetes probes out of the box