

Faridul Alam

IT Infrastructure ▪ DevOps ▪ M365

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in faridulalam



Professional Profile

Infrastructure-focused IT specialist with hands-on experience across Windows and Linux systems, virtualization, networking, Microsoft cloud services, identity management, security, PKI, and DevOps environments. Experienced in operating broad internal IT infrastructures, supporting engineering and business teams, and managing the full IT lifecycle—from user onboarding and endpoint support to servers, networks, virtualization, cloud services, security controls, and technical documentation.

Professional Experience

11.2024–Present

IT Specialist, AVILUS GmbH, Ismaning, Germany

- Operate and administer company IT infrastructure as the primary internal IT specialist.
- Administer Windows and Linux server environments, including Hyper-V and HPE virtualization platforms.
- Manage Active Directory, DNS, Group Policies, Microsoft 365, Exchange Online, Azure / Entra ID, and Intune.
- Administer network infrastructure, including UniFi switches, access points, VLANs, and company-wide connectivity.
- Configure and maintain perimeter and network security systems, including Forcepoint and Ericsson firewalls.
- Manage employee IT lifecycle processes: onboarding, offboarding, access rights, provisioning, and account management.
- Administer physical access systems and coordinate user permissions for company IT and facilities.
- Maintain laptops, workstations, and servers, including troubleshooting, patching, and hardware lifecycle management.
- Plan and implement virtualization, server, storage, and backup solutions for engineering and business systems.
- Support internal development and engineering environments, including GitLab, Docker, Linux servers, and CI/CD pipelines.
- Define and maintain IT security policies, technical standards, and infrastructure documentation.
- Support cybersecurity and compliance activities, including access control, system hardening, and NIS2 requirements.
- Coordinate external IT providers, software vendors, and infrastructure suppliers for procurement and support.
- Provide first- to third-level IT support and troubleshoot hardware, software, network, and access issues.

07.2019–10.2024

IT / Systems Administration & PKI, Secardeo GmbH, Ismaning, Germany

- Developed and maintained PKI-based certificate management software.
- Administered Active Directory, DNS, Exchange, VPN, firewalls, Azure, Microsoft 365, and Intune.
- Maintained Windows and Linux servers for development, testing, and support environments.
- Supported project and sprint planning, technical coordination, and system documentation.
- Supported Certificate Authority audit preparations.

05.2018–11.2018

Master Thesis, Department of Sustainable Communication Networks, University of Bremen, Bremen, Germany

Number of Flows Detection in Software-Defined Networks (SDN) Using Machine Learning

- Implemented a classifier to determine the number of flows in SDN/OpenFlow networks.
- Built SDN environments in Mininet and generated datasets for classification.
- Utilized Python and Bash for networking and data processing.
- Applied WEKA and scikit-learn for machine learning classification.

01.2018–04.2018

Student Job, Department of Sustainable Communication Networks, University of Bremen, Bremen, Germany

- Implemented Software-Defined Networks in Mininet.
- Evaluated available OpenFlow controllers regarding performance and features.
- Worked with machine learning libraries and GUI tools.

11.2015–05.2016

Master Project, Department of Sustainable Communication Networks, University of Bremen, Bremen, Germany

Performance Evaluation of Minimum Delivery Delay Multipath TCP (MPTCP) Scheduler in Linux Kernel

- Implemented and evaluated delivery-delay-based schedulers in the Linux Kernel and OMNeT++.
- Developed with Linux Kernel C and OMNeT++ / C++.
- Utilized Bash, IPERF, TCPdump, and Wireshark for network testing and analysis.

- 09.2012–02.2013 **Network Engineer, International Homeware (IHW), Dhaka, Bangladesh**
- Installed and configured computer hardware, operating systems, and applications.
 - Monitored and maintained network infrastructure.
 - Troubleshoot system, network, and hardware issues.

Education

- 03.2013–11.2018 **Master of Science in Communication and Information Technology, University of Bremen, Germany, Grade: 1.87**
- Specialization in Software-Defined Networking, Data Mining, and Machine Learning.
 - Focus on TCP, UDP, MPTCP, routing and forwarding, communication networks, and signal processing.
- 02.2008–06.2012 **Bachelor of Science in Electrical and Electronic Engineering, United International University (UIU), Bangladesh, Grade: 1.67**
- Specialization in Communication Networking and Renewable Energy.
 - Focus on power systems, control systems, C++ programming, digital electronics, and microcontrollers.

Research & Projects

- Master Thesis **SDN Flow Detection Using Machine Learning**
SDN, OpenFlow, Mininet, Python, Bash, WEKA, and scikit-learn.
- Master Project **MPTCP Scheduler Research**
Linux Kernel C, C++, OMNeT++, Bash, IPERF, TCPdump, and Wireshark.
- Bachelor Thesis **Solar-Diesel Hybrid Power System**
Modelling of a solar-diesel hybrid power system for St. Martin Island, Bangladesh, including system design, energy modelling, cost analysis, and environmental impact assessment.

Technical Skills

- Infrastructure Windows Server, Linux, Active Directory, Group Policy, DNS, Microsoft 365, Exchange Online, Azure / Entra ID, Intune, networking, VPN, Forcepoint firewall, Ericsson firewall, UniFi switching, and Wi-Fi
- Virtualization & Cloud Hyper-V, VMware, HPE VM Essentials, Azure, server infrastructure, storage, and backup
- DevOps & Automation Docker, Docker Compose, Traefik, Git, GitHub Actions, GitLab CI/CD, PowerShell, and Bash
- Development C#, C++, Python, HTML, MATLAB, Mininet, and OMNeT++
- Databases MSSQL, MySQL, SQLite
- Web Servers Microsoft IIS, Apache, nginx
- PKI & Security Public Key Infrastructure, certificate management, access control, system hardening, security policy, technical documentation, NIS2 / ISMS support

Languages

English: C1
German: B1+
Bangla: Native
Hindi/Urdu: Conversational

Additional Information

- Location Germany
- Nationality German
- Driving Licence Class B
- LinkedIn [linkedin.com/in/faridulalam](https://www.linkedin.com/in/faridulalam)
- Website cv.faridulalam.de