# Jonathan Burga

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Date of Birth: 1993.02.27
American / Romanian (EU) Citizen

Senior Linux Systems and DevOps Engineer with 5+ years of experience designing, deploying, and maintaining high-availability infrastructure, specializing in blockchain, cloud (Azure/Hetzner), and low-latency systems. Proficient in automation (Ansible, Terraform), Kubernetes, and monitoring (Prometheus, Grafana). Skilled in Python, Bash, Go, and network optimization, with a proven track record of reducing costs and enhancing performance. Reliable, contactable, reachable and agile.

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## Key Technical Skills

- **Systems**: Unix (Linux/OpenBSD/Solaris), Filesystems (LVM/EXT*/RAID/ZFS/Btrfs/iSCSI), Kubernetes, Docker, Nginx, HA architecture
- **Automation/Cloud**: Ansible, Terraform, Azure, Proxmox, Pfsense, Hetzner
- **Monitoring/Logging**: Prometheus, Quickwit, Vector, Grafana, Graylog/OpenSearch, Filebeat
- **Languages**: Bash, Python, Go, SQL, TypeScript, Solidity, Rust
- **Networking**: TCP/IP, UDP, IP routing, Pfsense, HTTP/S, DHCP/DNS, Certificate Management
- **Development**: API development (Flask/Gunicorn, Nginx, Go/Gin), React/NextJS, CI/CD pipelines, Websockets (Go/Gorilla)

## Professional Experience

**Linux and Network Engineer** *Bitcoin Suisse AG, Zug, Switzerland* Aug 2021 – Present

- Designed and maintained high-availability blockchain RPC node infrastructure, surpassing industry endpoint providers (2022).
- Deployed and managed some of the largest-scale PoS validators at the time (Ethereum, Polkadot, Avalanche, Cosmos) by TVL.
- Automated infrastructure with Terraform (Azure Application Gateway) and Ansible.
- Reduced cloud egress costs by hundreds of thousands CHF annually (Polkadot blockchain and iproute2 2022).
- Built logging system ingesting $\sim$ 12TB/day using Graylog/OpenSearch clusters
- Wrote several custom Prometheus exporters for blockchain metrics, defined several layers of blockchain health monitoring.
- Added service mesh infrastructure to kubernetes clusters with istio.
- Modernized SMTP stack for the company across all environments.
- Redeployed public share infrastructure for company using Nextcloud.
- Mentored team members and acted as deputy team lead.

**Linux Software Support Engineer** *Google (via Adecco), Zurich, Switzerland* Feb 2020 – Jul 2021

- Developed frontend and backend internal tooling (Python, Typescript) and analytics dashboards for Street View camera systems.
- Performed fault diagnosis and supported EMEA vehicle fleet geo-data ingestion.

**Linux Infrastructure Engineer** *Mako Trading, London, UK* May 2019 – Feb 2020

- Maintained Linux systems for ultra-low-latency trading environments, ensuring 24/7 uptime.
- Debugging and packet capture analysis of on-premises systems and colocations.
- Configured firewalls (Pfsense, Firewalld), proxies (Squid), and network switches.
- Physical server installation at colocations and system performance tuning.

## Education

**B.Eng Electronic Engineering (1st Class Honours)** *University of West London, UK* 2019

- IET Accredited

## Notable Projects

- Designed and implemented Ethereum validator infrastructure API for automation of validator staking with RabbitMQ-triggered by CD pipeline.
- Developed performant analytics dashboards for large-scale databases and custom logging systems.

## Languages

- English: Native
- German: B2

## References

available upon request.