

Chess 7th

· SITE RELIABILITY ENGINEER ·

Geneva Switzerland
Italian

📄: git.sr.ht/~chess7th | ✉: chess7th@pm.me

“My motivation, drive and eagerness to improve myself and learn have never been matched.”

Experience

Bestmile

Lausanne Switzerland

SITE RELIABILITY ENGINEER

Jul. 2019 – now

- Implement **D.R.Y.** “Infrastructure as Code” with **Terraform** modules and **Terragrunt**. Automate deployments with Atlantis using GitOps principles.
- Migrate all environments from cloud providers GCP and Azure over to AWS. Major migration was for Kubernetes and Apache Kafka, respectively migrated to **AWS EKS** and **AWS MSK**.
- **Kubernetes** clusters administration: maintain, secure, stabilize and debug.
- Logging and monitoring all infrastructure components with Prometheus, Grafana, Elasticsearch, Kibana, Logstash, Filebeat.
- Implement CI-CD pipelines (Bitbucket&Codefresh) to keep all clusters “base”/“ground” services up to date using **helm** and **helmfile**.
- Management and administration VPN bastions **Linux** hosts with **bash** scripts, **aws-packer** and **ansible**. Version control all modifications and changes with **git** (Bitbucket).
- Maintain and instrument with **prometheus-exporters** various legacy tools coded in **GoLang**.
- Develop several internal tools and scripts with **Python3** and the **Serverless** framework.

Deploy, maintain and improve from the ground up a full blown infrastructure using SRE best practices.

Pictet

Geneva Switzerland

PYTHON DEVELOPER

May. 2019 – Jul. 2019

- Develop and implement an ORM for Neo4J database into project scope using latest **Python3** libraries.
- Refactor and improve critical parts of some legacy code, improving reactivity and implementing **Python3** best practices.

Improving the reactivity of the backend helped the product owners in their decision making process.

EBU

Geneva Switzerland

PYTHON DEVELOPER

Jun. 2017 – May. 2019

- European Championships 2018 backend application, Live ingest of Sports data events and stream back to partners.
- Proof of Concept and Production Pilot: Usage of Semantic Database such as **RDF4J** in Live sport Streams.
- Develop with Python a **REST API** using **flask** web-framework.
- Create an asynchronous backend using **RabbitMQ** broker with the **celery** and **lxml** libraries. The backend converted **XML** files into **RDF** format using **XSLT** files and stored data in **RDF4J** and **PostgreSQL** databases.
- Containerize the project with **docker**, **docker-compose** and deploy to **docker-swarm** cluster.

Production pilot during European Championships 2018 (Glasgow and Berlin), ingest of Live Sports Data.

Ducommun Dit Boudry Software Consulting

Geneva Switzerland

SOFTWARE DEVELOPER JR.

Feb. 2017 – May. 2017

- Creation, development and deployment of web app: Backend, FrontEnd and mobile apps for Android, iOS, WindowsPhone.
- **Scala** frameworks used for backend development included **Play Framework** and **Slick ORM**. First approach and implementation of a “simple” **akka** Actor Model.
- Backend architecture included a **PostgreSQL** database to store and retrieve data. All components of the project have been containerized with custom made **docker** images.
- Frontend developed with **Angular2 JS** with **Typescript** using the **Observer Pattern**.

Created an end-to-end application for an event with admin and user modules.

Gate Gourmet

Geneva & Zurich, Switzerland

BUSINESS PROCESS IMPROVEMENT MANAGER JR.

2013 – 2016

- Creation, development and deployment of internal tools: Facility Management Tool, Work Allocation Tool, Allergens Replacement Reporting System. All tools coded in **VBA Excel**. User-friendly interfaces and usage.
- **SAP** Super User for Switzerland (total 3 Units). Implementation of new features for SAP 6.0 Switzerland.
- **SAP (MM/SD/FI)** reports creation for Finance / Supply Chain / Sales and material control.

Create IT tools to connect humans' inputted data in order to improve its quality.

Skills

CI-CD	Codefresh, Helm-Charts, Helmfile, Atlantis, ArgoCD, Gitlab CI-CD
Infrastructure as Code	Terraform, Terragrunt, Ansible, Packer, EKSCluster, Serverless
AWS	VPC, EC2, MSK, RDS, ES, EKS, ECS, ECR, Lambda, Batch, IAM, Route53...
Monitoring & Logging	Prometheus, Prometheus exporters, Grafana, Kibana, Logstash, Filebeat
Programming	Python, GoLang, Rust, C/C++, Scala, Java, TypeScript
Operating Systems	Linux (Debian, ArchLinux, CentOS, Ubuntu...), PFSense, OPNSense, Windows
Networking & Protocols	OpenVPN, Cert-Manager, External-DNS, VLANs, NAT, Route tables, NACLs, iptables
Microcontrollers	Espressif ESP8266, NXP LPC 1769, NXP LPC1114, Arduino Uno, FPGA Bus Avalon.
Hardware & Embed devices	PCB prototyping, PCB soldering, Firmware flashing, Micropython for Embed Devices, FPGA (VHDL)
Management	SCRUM Agile methodology, COBIT Certification, Business Analysis, KAIZEN Methodology, LEAN Philosophy
Fluent Languages	English, French, Italian

Education

HES-SO – hepia (evening courses)

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Geneva, Switzerland

2014 – 2018

Glion Institute of Higher Education

BACHELOR IN HOSPITALITY MANAGEMENT AND MARKETING

Bulle, Switzerland

2005 – 2008

ISACA – IT Training Academy

COBIT CERTIFICATION

Geneva, Switzerland

2017

IT Training Academy

SCRUM MASTER & BUSINESS ANALYST COURSE

Geneva, Switzerland

2017

Extracurricular

Food OpenData: Winning Team

HACKATHON

Lausanne, Switzerland

2017

- Actively participated in the new ideas of NutriMenu project and code development.

HP Smart Cities

HACKATHON

Geneva, Switzerland

2017

- Prototype to promote a game in using green transportation to work.
- Technology stack: Telegram Chatbot, NFC cards, Arduino and Raspberry Pi as server.

Arkathon, Hacking Health

HACKATHON

Sion, Switzerland

2017

- Web interface and Android App to connect Patients, Doctors, Pharmacies and Insurances in a secured manner.

Personal & Hobbies

Geneva, Switzerland

Ongoing

- HomeLab with multi-node and multi-arch**K3S**, GitLab and Gitlab-CI, Nextcloud, Syncthing, Ghost Blog, Media Center, Mail...
- Electronics projects: Autowatering System for Plants, IoT devices controlling lights and shutters (WIP)
- Home network with DMZ, Firewalling (Pfsense 2+), VPN's.
- Vinyl Record collector (1960's 1980's).
- Squash, Swimming, Basketball, Woodworking.
- Linux Operating Systems testing and configuration, programming and networking (homelab).