



GLENN DIRKX

Tech enthusiast
Passionate about cloud, SRE, and dinosaurs
Builds stuff and sometimes things

English | Nederlands

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juravenator.dev



BIOGRAPHY

I'm a 31 years old software developer from Belgium.

Working in tech since 2010, both national and international.

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- dirkxglenn

EXPERIENCE

Freelancer

JuraBytes | June 2021 - present

Client: VDAB

Join the Container Operations team in its efforts to build a container platform for internal customers. Ownership of security workflows and compliance across all container platforms. Assisting in the onboarding and coaching of teams migrating towards containerization.

Client: iDirect, Telenet

Join the Container Cloud Platform Engineering team, performing feature development and containerization of a telecom cloud-agnostic stack (public/private/edge cloud) including AWS, Azure, and on-prem. Assist in (re-)alignment to a platform team, as well as the transition to DevSecOps and SRE practices. Contribute to architectural design, roadmaps, and planning. Leading the stability & Reliability Engineering, code sharing, infrastructure-as-code, and CI/CD design & development efforts. Customizing Kubernetes setups for high-throughput Container Network Functions.

Hybrid Cloud, Etsi Mano, VNF (Virtual Network Function Manager), AWS, Azure, GCE, Golang, (Embedded) Rust, Jenkins, Bash, Python, Java, Prometheus, Grafana, Agile/SCRUM/SAFe, OpenStack, Kubernetes/OpenShift/Anthos, Debian/Ubuntu/CentOS/Rocky Linux, KubeVirt, Terraform, DevSecOps, Kubernetes CNI (for eBPF/SR-IOV) (Calico, Cilium), Terragrunt, Ansible, New Relic

Research Associate in High Energy Physics

Imperial College London | Jan 2021 - June 2021

Participate in a leading role in developing the data acquisition systems for the future Deep Underground Neutrino Experiment DUNE detector, in particular the Control, Configuration, and Monitoring (CCM) division. Collaborate with teams across timezones (UK, USA, CERN). Perform a supporting role in the previous position at CMS.

SOA, C++17, Python2-3, CentOS 7, Kubernetes (+ Operator Pattern & CRDs), OKD & OpenShift, GitHub Actions

CMS L1 Trigger Phase-II Online Software Coordinator

CERN | Nov 2018 - March 2021

Managing the Phase-II upgrade of the Trigger Online Software management systems, as well as guiding or managing related teams. Co-runner of the Phase-II Software Management group. Working together with CMS L1 teams to articulate requirements and jointly create working solutions. Lead SRE, DevOps design and implementation efforts, and Agile scrum practices. Participate in upgrade of Ops and monitoring stack. Upgrade of C++ frameworks to C++14/17. Lead migration from SVN to git for all projects. Implementation of customized Auto-Devops & CI/CD for teams. Organize lectures for users and developers. Implement incident response workflows and disaster recovery runbooks.

C++ 98-17, Golang, Rust, Java, Python 2-3, Prometheus, Kubernetes, OpenShift, Calico, Agile, SCRUM, Kanban, Grafana, Kibana, KPI management, Vue 3, TypeScript, SRE, CentOS 7-8, Terraform, Ansible, OracleDB, MariaDB, GitLab CI, CI/CD, HEP Computing, DevSecOps, GitOps (ArgoCD)

Backend Developer

Technicolor | Sep 2017 - Oct 2018

Participate in development of a real-time IoT big data analysis pipeline. Co-runner of the end-to-end tokenization project for GDPR compliance.

AWS (EC2, S3, CloudFormation, EKS, ECS, DynamoDB, Lambda, VPC, SageMaker, EMR, Glue, SQS, IoT, API GW, ELB, R53), Spark, Puppet, Java 8-11, Java EE, Vertx, Angular 1-2, Vue, Prometheus, C, OpenWRT, Scala, Python, NodeJS, Go, Kafka, Gerrit, Chaos Engineering, Jira, Agile, SCRUM, Kanban, GitHub Actions, Service Oriented Architecture (SOA), Kibana

Summer Student & Technical Student

CERN | Jun 2015 - Sep 2015 & Feb 2016 - April 2017

Upgrade and later maintenance and operations of the Level-1 Trigger interface system of the CMS experiment. Development of management interfaces and APIs for configuration Management and monitoring. User and developer workshops and training.

C++98 (+Boost), NodeJS, PM2, FPM, Polymer 1-2, Dojo 0.9b, Cgicc, Grunt, Socketio, Oracle Database, Gitlab CI, SLC6, CERN CentOS 7, Restify

Junior Software Engineer -> CTO

Agilians | Aug 2013 - Aug 2017

Cold-booting a startup. Setting up hardware, networks, compute infrastructure, etc. Set-up of a hybrid cloud. Researching a BPM stack suitable for our needs. Development of a new BPM platform. Managing a team of external developers. Hiring and onboarding of new employees.

SOA, microservices, AWS/GCE/Joyent, Kubernetes, Hashicorp, Gitlab CI, IBM BPM (8.x), Camunda BPM, Docker(-compose), CoreOS, storageOS, Calico, NodeJS, JBoss Drools, Java (EE,JSP, Spring), Hibernate, PostgreSQL, MariaDB, DB2, MSSQL, vSphere/ESXi, OpenStack, Intel Mashery/ESG, REST/SOAP API Development, Restify, HTML5/CSS3, jQuery, Google Polymer, Windows Server, Linux (Ubuntu, CentOS), OpenVPN

EDUCATION

Master of Electronics and ICT Engineering

KU Leuven | 2013 - 2016 | Cum laude

Digital Signal Processing, Electronic design, Software engineering, Machine learning, Digital and wireless communications, network security and cryptography, Corporate management, environmental technology

Bachelor Of Electronics and ICT

Thomas More | 2010 - 2013 | Cum laude

Real full-stack computing. From knowing how electronics work, how a CPU is built, how a computer works, how an OS works, building networks, setting up databases, building server code, all the way up to building a front-end.

Cisco, VOIP, PIX Firewall, Windows Server 2008 - 2012, Active Directory, Linux, scripting (bash, python), LAMP, Virtualisation, PIC Assembly, VBNET/C#, C, HTML/CSS, PHP, ASP.NET, AJAX, jQuery, Java, MSSQL, electronic circuit design, Included a 3-year CCNA Course with WAN, VOIP, and Security Extensions

Business & Marketing

Moretus Ekeren | 2004 - 2010

Had the most IT classes. Company management, accounting, marketing, basic business informatics.

PUBLICATIONS

- **Upgrading the Interface and Developer Tools of the Trigger Supervisor Software Framework of the CMS experiment at CERN**
G. Dirkx, C. Lazaridis
<https://cds.cern.ch/record/2265916>
- **SWATCH Common software for controlling and monitoring the upgraded CMS Level-1 trigger**
S. Bologna, G. Codispoti, G. Dirkx, L. Kreczko, C. Lazaridis, E. Paradas, A. Rose, A. Thea, T. Williams
<https://cds.cern.ch/record/2194548>

CERTIFICATIONS

- **Google Cloud Fundamentals: Core Infrastructure**
Google - 2021
- **COBOL Programming with VSCode**
IBM Corporation - 2021
- **Mining Massive Datasets**
Stanford University - 2015

REFERENCES

- Tom Boonen | Global Head for SAP Ecosystems at Red Hat
- Alessandro Thea | Scientific Researcher at STFC
- Christos Lazaridis | Software Design Engineer at ASML
- Alex Tapper | former CMS Trigger Project Manager