Michael **Vieira**

API/Backend engineer

Paris region, France

✉ hello@mvieira.fr | 🎂 27 years | 🏠 mvieira.fr | 🐙 themimitoof | in vieiramichael

Experience

Gandi.net
Backend/API Engineer

Paris, France

Sept. 2018 - Present

- Development and maintenance of services linked to user accounts management, RBAC, notifications and various other services (approx. 30 services)
- Implementation of a SAML 2.0 SP and IDP server for "corporate" customers
- Public website redesign, replacing the old website built on top of Pyramid by Django Wagtail
- Redesign of the entire Gandi's central notification service
    - Setup of email, Amazon SNS and text message channels
    - Accessibility works and study about the authenticity proof of text messages
- Setup the foundations to migrate to Jenkins pipelines (2018)
- Setup, deploy and maintainance the entire GitLab-CI CI/CD infrastructure, designed most of the pipelines to simplify the transition from Jenkins to GitLab-CI. (2022-2023)
- Discussions and implementation of a new workflow for migrating the entire project management from Phabricator to GitLab Ultimate
- Redesign of Docker/OCI images, layers optimisation and image weight according to technical constraints
- Improving the developer experience for all company's developers
- Stack mainly based on Python, Pyramid, Pydantic, Celery, RabbitMQ and PostgreSQL. Linux-based infrastructure, provisioned via Puppet and Ansible.

VISA2000 Groupe ARD (Alpes Recherche et Développement)
System and network administrator (apprenticeship)

Viry-Châtillon, France

May 2016 - Aug. 2018

- Redesign and maintenance of the company's internal network and of the mixed IT environment (Windows, Linux)
- Setup hypervisors (XenServer then migrated to XCP-ng) to meet the growing needs of internal tools
- Installation of a secure remote access infrastructure (OpenVPN) for technicians and point-to-point tunnels to ARD's head office located in Gap
- Design, implementation and/or redisgn of "technical" systems and network infrastructures for a bunch of customers, including *Bouygues Immobilier, Groupe Les Échos-Le Parisien, Crédit Agricole, L'Oréal*

Full-stack developper (apprenticeship)

May 2016 - Aug. 2018

- Redesign and maintenance of several company services (PHP, MySQL, Bootstrap)
- Development of a Raspberry Pi-based multiview video surveillance monitor with hardware acceleration (Python, Bash, FFMPEG)
- Development of ARD Ace access control management software (ASP.NET, Entity Framework, SQLServer, ExpressJS, Bootstrap)

Workshop and on-site technician (apprenticeship)

Sept. 2012 - Sept. 2018

- Preparation, configuration and testing of equipment before dispatch to customers or on site
- Programming, diagnosing and repairing hardware problems on equipment designed by the company
- On-site installation and assistance/repair of access control, intrusion and video surveillance systems

Extracurricular Activity

TurtleBit
Founder member

Nov. 2019 - Present

- Deployment and maintenance of the AS208505 IPv6-only autonomous system on a hybrid infrastructure with a presence in France, Germany, Netherlands, Spain and Portugal (bare-metal and VMs, OpenBSD routers using OpenBGPd, rpki-client, OpenOSPFd)
- Choice of peering and transit partners and route optimisation
- Infrastructure management and supervision by code (Terraform, Ansible, Netbox, Icinga, Prometheus, Grafana, PagerDuty)
- Design of various automated provisioning tools for software-defined networks (Go, Python, Bash)
- Various experiments with IPv6, DNS, BGP on ARM, Anycast, Fediverse and self-hosting

Education

BAC+4 Concepteur Développeur Application et Internet *Paris, France*
Schola Nova *Sept. 2018 - July 2020*

BTS SIO SLAM (Solutions Logicielles et Applications Métiers) *Paris, France*
IMC Randstad *Sept. 2016 - July 2018*

Baccalauréat professionnel ESN (Entreprises sociétés numériques) *Paris, France*
IMC Randstad *Sept. 2014 - July 2016*

CAP PRO ELEC (Préparation et réalisation d'ouvrages électriques) *Saint-Maur-Des-Fossés, France*
CFA94 *Sept. 2012 - July 2014*

Skills and interests

Programming languages	Python, GoLang, NodeJS, Bash, LaTeX
DevOps	Linux, OpenBSD, MacOS, Ansible, Puppet, Terraform, Docker, Proxmox, Jenkins, GitLab-CI, GitHub Actions Prometheus, Grafana, Sentry
Network	BGP, OSPF, VXLAN, L2TP, GRE, Wireguard, OpenVPN, IPv6
Languages	French (native), English (fluent), Portuguese (native)
Hobbies	Film and digital photography argentique, music, aviation, travel, self-hosting, home automation, Japanese culture, Yuki my doggo