Michel **Kreutner**

ENGINEER · SOFTWARE ARCHITECT

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Be the change that you want to see in the world.

About me ...

I have many years of experience in the field of information technology combined with a solid background in the field of automation, computer signal processing as well as a strong ability to acquire new knowledge and skills.
I can work both in a team and independently. I have a strong sense of organization and proven skills in system administration, development (WEB, API), DevOps and editorial.

Skills

DevOps	AWS, Azure, Google Cloud Platform, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CI/CD, GitHub, GitLab
Programming	Python, PHP, C#, ASP, C/C++, Java, JavaScript, TypeScript, HTML5, LESS, SASS, LaTeX
Frameworks / Libraries	Flask, Django, FastAPI, Symfony, Laravel, .Net, React, Angular, Bootstrap, TailWind
Languages	French (Mother tongue), English (B1 - Intermediate)
Methods	Scrum, Kandan, Waterfall, XP, Pair programming
Others	Open-minded, Persevering, Listening, Proactive, Team Player, Organized

Experience

AxioCode – Web and Mobile development

Metz, France - On site

DEVELOPER

02/2024 - Present

Context

Within one of the business/client teams, I am responsible for implementing new features for different applications and more specifically:

- Development and Maintenance of the Core application that centralizes business information, provides a BackOffice and an API for different business applications (C#.Net, ASP.Net and Framework .Net 4.5/4.6);
- Development of the new Core application (C#, .Net Core);
- Technical referent for the implementation of applications in lightweight containers (Docker, k8s);
- Implementation of docker stacks for development, integration and production environments;
- Implementation of CI/CD workflows;

Technical referent for the implementation of a centralized management solution for users and their access rights to applications. As well as the implementation of an SSO.

Technical environment

- C#, .Net Framework 4.5/4.6, .NetCore, Gitlab, Gitlab-CI, Docker, k8s;
- PostgreSQL, MariaDB, SQL Server 2019

GVA Africa – FTTH Deployment in Central Africa

Paris, France - Full remote

IT DEVELOPER

08/2023 - 02/2024

Context

Within the development SI team, I am in lead to correct and implement news features on several applications. I'm in charge of:

- Maintaining technical documentation of API;
- Develop new features and correct bugs on APIs for network management;
- Develop new features and correct bugs on administration tools;
- Technical referent for New ONT call for tenders;

Technical environment

- Python 3.7+, Django 4.x and Django Rest Framework, Flask, Peewee, Ansible, Gitlab, Gitlab-CI;
- OLT, ONT, Debian Server, Network Equipment;
- PostgreSQL;

LiNote – Elderly people help

Nancy, France - Full remote

FULLSTACK DEVELOPER

01/2023 - 07/2023

Context

Within the development team, I am in lead to correct and implement news features on backend side and frontend side. I'm in charge of:

- Deployment of backend and frontend applications on the several environments (Production, Staging, Testing);
- Monitoring server status with Zabbix;
- Maintaining technical documentation of API;
- Develop a synchronization tool to synchronize Airtable and Postgresql database;
- Develop on Airtable and Retool platforms: for Data synchronization between Airtable database and Postgres database (Peewee + PyAirtable);
- Develop tools for Helpdesk and Packing & Repair team: one to get remote internal log of android device and store it on AWS Bucket and another to duplicate android devices for substitution;
- Test and report mobile applications (Android and iOS devices);
- Manage Twilio services;

Technical environment

- Python 3.9+, Django 4.x and Django Rest Framework, Flask, Peewee;
- PostgreSQL;
- Salt;
- Zabbix;
- Twilio;
- AWS Bucket;
- Docker;
- Angular;
- Android;

Crédit Agricole de Lorraine – Bank & Insurance

Metz, France - On site

IT PROJECT MANAGER

02/2022 - 12/2022

Context

Within the "Péri-Informatique" team, I am the local referent of a project which aims to update the development stack used during development of private applications for the regional business unit. This project will lead to the establishment of a CI/CD chain, the management of a registry, and the use of a Kubernetes scheduler.
In addition to this role, I work on the development of business applications based on the current development stack.

Technical environment

- PHP 5.6, jQuery 1.4, MSSQL 2008;
- PHP 8.0, React 17.0, NodeJs, MSSQL 2019;
- Kubernetes, Docker, Registry, Gitlab + CI/CD;

AxioCode - Web and Mobile development

QUALITY AND METHODS ENGINEER - DEVEOPS ENGINEER

Context

Within this Web solution editor, I joined the team responsible for improving processes and quality within the company.

Responsibilities

Within the quality and methods team, I am responsible for:

- analysis of user needs and writing specifications of projects;
- the implementation of continuous integration and continuous deployment process for certain projects. Process which will then be extended to all projects;
- the implementation of the Gitlab project management workflow with KPIs to analyze, among other things, the times for handling issues as well as their resolution time;
- setting up feedback processes (REX (or RetEx) in French);
- the establishment of a knowledge base of the company;
- the implementation of an in-house training solution;
- the implementation of the DevOps architecture (Docker Registry Harbor, Gitlab-CI);
- the establishment of good practice guidelines;
- writing of new models of functional and technical specifications;

As an experienced developer on Angular, I participate in code reviews. When the workload is too heavy, I sometimes also colaborate to certain projects as a developer. In this context, I realized:

- the technical analysis and writing technical specifications;
- the set-up of functional test scenarios;
- the development of the functionality;
- the design of boilerplates using docker for: frontend (Node / Angular / React), backend (PHP / Symfony), Fullstack;

These boilerplates are made with the aim of starting a new project more quickly but can also be integrated into an existing project; this makes it possible to standardize development architectures.

Having a good knowledge of Python / Django, I carried out for a client the evaluation of the complexity of the porting of the Symfony 2 / AngularJS version to Python 3.10 / ReactJS. As part of this evaluation, I also carried out a POC on the most used features; MVP version of the application.

Technical environment

- Google Suite;
- PHPStorm, WebStorm, IntelliJ, PyCharm;
- VisualParadigm;
- Docker, Docker-Swarm, Kubernetes, Harbor, Traefik, Gitlab, CI/CD;

ProConsultant Informatique - TV-Media solution editor

SENIOR DEVELOPER - LEAD TECH DEVELOPER

Context

Leader in the development and implementation of enterprise management software for the media industry. I joined the solution development team.

Responsibilities

Within developement team, I am responsible for:

- API Development: Java, C++, Python, PHP, .Net;
- Frontend Development (React 16);
- Technical Leader for Frontend Development - Leads a team of 5 developers located in Morocco in a subsidiary of the company;
- PL/SQL and 4D Development;
- System Administration (Windows, Linux (Debian, Fedora / RedHat));
- Administration and Management of Source Server (GIT / Gitlab);
- Remote support for customers;

Technical environment

- Databases on Windows Server (MSSQL, Oracle);
- Languages / Frameworks: Java / SpringBoot, C++ / Boost, Python / PyUnit, Flask and Django, PHP / Laravel, PHPUnit, Typescript / React.js, C#.Net, PL/SQL;
- Gitlab on-premises: Source Versioning and CI/CD;
- Servers running on: Windows Server (2003R2, 2008R2, 2012R2, 2016);
- Servers running on: Debian (Jessie, Wheezy, Squeeze, Lenny);
- Servers running on: RedHat;

Raiffeisen Bank via Lux Pro Consulting - Bank

Leudelange, Luxembourg - On site

TECHNICAL REFERENT (FRENCH BUSINESS PORTAGE)

12/2018 - 03/2019

Context

Community bank. I joined the Business Application Development team as a Web Development Reference

Responsibilities

Within developement team, I am responsible for:

- Frontend Development;
- Frontend Development referent and contact with external providers;

Technical environment

- Development with Typescript and Angular 7;
- Source Server (GIT);
- OpenStack;
- Desktop and servers operating systems (Windows);

BizzDev - ESN

Luxembourg, Luxembourg - Hybrid

SENIOR CONSULTANT

10/2017 - 12/2018

Context

Senior Multiple Technology Consultant

Responsibilities

From 01/2018 to 12/2018, On assignment at a major global player in steel production (ArcelorMittal, Luxembourg), I joined the team in charge of databases and all the group's financial applications administration.
I was duty of in the daily tasks of maintaining databases and applications up and running.
I also contributed to the migration of servers and applications from an On-Premises Datacenter to an Azure private cloud.
I developed a monitoring and administration solution for servers and applications in the Azure cloud.

From 10/2017 to 12/2018, On a mission within an editor of solutions based on the ERP Odoo (Acsone, Kehlen, Luxembourg), I joined the team in charge of carrying out the follow-up of the training of Lawyers of the Bars of Belgium.

Results

- More than 200 MSSQL servers migrate under azure;
- Application for monitoring and administration of operational servers and put into production for the team of System and Database Administrators;
- Lawyer Training Management Portal delivered in production and user training;

Technical environment

- Frontend Development (Angular 6 / RxJs 6) & (Angular 5, RxJs 6) & (React 16.5);
- API Development (.Net core 2.1);
- Source management servers (GIT / Gitlab and TFS);
- Deployment automation (TFS): PowerShell Scripts;
- CI/CD and Automation of deployments (Gitlab-CI): setup Gitlab runners, definitions of jobs and stages according to the environments (DEV, UAT, PROD);
- Databases (MSSQL, Oracle, Postgres);
- OS (Debian, Ubuntu, Windows Server (2003-2016));
- Applications: Automation AnyWhere (RPA), Odoo (Python Development, Seting up application for customers);
- Agile methodology (SCRUM);

Sogeti - ESN

FULLSTACK DEVELOPER

Context

For a major world retailer, I joined the team responsible for creating a Web and Mobile application allowing the site and department manager to manage their stock and get sales statistics feedback to help them with the shelving of their sector.

Responsibilities

- Frontend developement;
- API developement;
- SQL developement;
- CI/CD, Deployment (Front, API, SQL);

Results

- Functionalities requested operational and deployed in production;
- Deployment in three Group countries (Russia, France, Luxembourg);
- Deadlines mets;

Technical environment

- Front: Angular 4, HTML5 / Canvas, CSS3;
- API: Java JEE, Spring, Hibernate;
- Database: PostgreSQL;
- Git;
- Agile Methodologies (Scrum, Kanban);
- Deployment (Mavan, Jenkins);
- Source code analysis (SonarQube);
- Maintaining Front and API application deployment images;
- Managing Docker images on private registry;

Abylsen Est - ESN

SENIOR CONSULTANT

Context

On assignment in the IT management center of a major retailer in France, I joined the team in charge of the Drive part.
I participated in the maintenance and evolution of the current Drive platform.
I participated in the development of the Drive API initially created as part of a project for Mobile Application of the Drive and which will then be used by the Web platform.

Responsibilities

- FrontOffice developement;
- API developement;
- BackOffice developement;
- SQL developement;
- Deployment (Front and Back Office, API, SQL);

Results

- New functionalities requested operational and deployed in production;
- Deadlines mets;

Technical environment

- PHP 5.x / 7.0;
- Lumen / Laravel / Passport;
- Perl, Template Toolkit;
- Typo3;
- jQuery, Bootstrap, HTML5 / CSS3;
- Database MySQL;

Moneo / Applicam (Docapost) - Solutions editor

Metz, France - On site

Embedded Systems developer

02/2014 - 02/2016

Context

Internally at a publisher of solutions based on smart card management systems, I maintained and developed one of their key solutions for the management of fuel cards used by customers such as TOTAL (AMO).

I oversaw needs analysis, writing functional specifications with the client's business team, writing end-of-sprint recipe books, writing technical specifications for the development team.

I was also responsible for writing user documents (French/English)

Responsibilities

- Development of applications on payment terminals (Ingenico, Verifone);
- Development of test and simulation tools (Python);
- Technical referent for manufacturers of pump controllers and communicating equipment on distribution sites;

Results

- New features delivered at the end of each sprint;
- Deadlines mets;

Technical environment

- Debian servers for simulators;
- Secure bank payment terminals;
- Fuel delivery equipment from different suppliers;

EBM Consulting - SAP ESN

Bascharage, Luxembourg - Flex Hybrid

Analyst developer

10/2012 - 02/2014

Context

Internally in an ESN whose core business is based on SAP technologies, I oversaw the correction and evolution of an employment platform (the company wanted to diversify its activity and have a canvassing tool for freelancers and end customers).

Responsibilities

- Needs analysis, writing of Functional and Technical Specifications for the development of a job market solution;
- PHP / Joomla 1.5 / Zend Framework development;
- System and Network Administration: Management of employee computer equipment and telephony (Alcatel);
- Maintaining the VTiger solution as an internal CRM;

Results

- The Initial version of the employment platform has been stabilized;
- The new Version of the employment platform has been deployed in MVP;

Technical environment

- MySQL Database;
- PHP / Zend Framework and Joomla 1.5 development;
- ALCATEL telephony system;
- The VTiger CRM Solution is operational and has been deployed in production;

ArcelorMittal HQ Europe - Steel Manufacturer

Luxembourg, Luxembourg - On site

Open-source Consultant

07/2006 - 10/2012

Context

Within the Open Source then IAM team, I contributed to the realization of various projects as a technical referent.

Responsibilities

- Web development (PHP, Python, Perl);
- Systems and Networks development (Python);
- Mail routing / Spam Filtering (EXIM, Greylisting, Spamassassin);
- VoIP (Asterisk);

Technical environment

- Databases: MySQL, MSSQL Server;
- OS: Debian, Windows 2003 and 2008 Server;
- Web Server: Apache, IIS;

ALTEN Tehcno Est - ESN

Starsbourg, France - On site

ENGINEER

03/2006 - 07/2006

Context

As a VoIP consultant, I implemented the client's internal IP telephony system as well as the implementation of a Call-Center. The chosen solution was an Open-Source solution (Asterisk).

I also carried out training and user support.

Responsibilities

- Developments (PHP, Python and Perl);
- System and Network Administration (Asterisk VoIP, CISCO Routers);

Results

- Internal VoIP system operational;
- VoIP Call Center System operational;
- Trained Call Center Operators;
- Web application for presenting KPIs to Call Center managers is operational and deployed;

Technical environment

- Databases: MySQL;
- OS: Debian Server;
- Network: CISCO hardware (routers, managed switches);

University of Lorraine

Metz, France - On site

ENGINEER & PROJECT MANAGER

11/2004 - 03/2006

Context

As Wi-Fi Network Project Manager, I was able to carry out the project to set up a Wi-Fi network at the University of Metz (Multi-sites geographical). From the needs analysis to the delivery of the system, I wrote all the documents necessary for the project (Needs analysis, Functional Specifications, Technical Specifications, Call for Tender, Choice of supplier, Deployment schedule)

I also carried out training and user support.

Responsibilities

- System and Network Administration (CISCO Routers and Wi-Fi Hotspots);
- Employee training and support;
- System and Network Development (Perl, C#.Net);
- Web development (PHP);
- Database development (MySQL, Oracle);

Results

- Web application for University formation is operational and deployed;
- Full deployment of the wireless network on all University sites;
- Second step for wireless extension started;

Technical environment

- Databases: Oracle, MySQL;
- OS: Debian Server;
- Development: PHP, Python, C#.Net (Mono), Perl;
- Network: CISCO hardware (routers, managed switches, wifi hotspots);
- VoIP: Asterisk;

Education

IAEM Doctoral School
Nancy, France

PHD. (PHILOSOPIAE DOCTOR) - AUTOMATIC AND ROBOTICS
09/2000 - 09/2004

- Subject: Multisensory perception for the positioning of an autonomous vehicle dedicated for disabled people.

INP Lorraine
Nancy, Lorraine

MASTER OF SCIENCE (NVQ LEVEL 5) - AUTOMATIC AND ROBOTICS
09/1998 - 09/1999

- Mastering the different technologies related to automatic and robotics;
- Design, develop and optimize an application including automatic and robotics;
- Lead a project independently by integrating budget management, supplier or subcontractor management;
- Manage the department's activities;
- Communicate and exchange in technical English.

University of Lorraine
Metz, France

BACHELOR'S DEGREE OF SCIENCE (BSC DEGREE) AND MASTER'S DEGREE OF SCIENCE (MSC DEGREE) IN INDUSTRIAL SYSTEMS
09/1996 - 09/1998

ENGINEERING WITH COMPUTER SCIENCE OPTION

- Train engineer-level executives' competences for operations management, industrial system, production and logistics delivery;
- with a strong openness to the challenges of operating a company;
- with transversal skills such as listening skills, interpersonal skills, negotiation and communication skills, mastery of at least one foreign language.

Louis Vincent High School
Metz, France

BTEC HIGHER NATIONAL DIPLOMA IN INDUSTRIAL CONTROL AND AUTOMATIC REGULATION
09/1994 - 09/1996

The holder of the Advanced Technician Certificate in Industrial Control and Automation has all the necessary skills to resolve malfunctions related to the automation of equipment and major continuous industrial manufacturing processes whose production cycle cannot be stopped. He masters the command, control and regulation phases.

Extracurricular Activity

Emoji Complete
Public

OWNER / MEMBER
08/2025 - PRESENT

https://github.com/mkreutner/emoji-complete

- C++, Shell, Just.
- A funny project to display emoji in an unicode terminal.
- Useful when I want to display emoji in my commit message.

My CV in LaTex
Public

OWNER / MEMBER
08/2025 - PRESENT

https://github.com/mkreutner/latex-resume

- My CV, Resume and Coverletter in LaTeX.
- Started because content is more important than container.
- A better look and feel than a CV made with standard tools.

Windows inside Linux container
Public

OWNER / MEMBER
08/2025 - PRESENT

https://github.com/mkreutner/docker-windows

- Docker project based on Dockur.
- Build Windows Server with Remote Desktop with MSSQL Server.
- Extra access to MSSQL Database Instance from Host.

MP3 to TXT
Public

OWNER / MEMBER
08/2024 - PRESENT

https://github.com/mkreutner/mp3totxt

- Python, Docker, Shell
- Transcriptor tools aims to convert MP3 voice record into plain text file.

Honors & Awards

NATIONAL AWARDS

2005   **1rst**, National Academy of Metz Scientific Distinction   *Metz, France*

Certificates

2023	**AWS Certified Advanced Networking - Specialty**, Amazon Web Services (AWS)
2023	**AWS Certified Developer – Associate**, Amazon Web Services (AWS)
2023	**AWS Certified Cloud Practitioner**, Amazon Web Services (AWS)
2022	**AWS Certified Security - Specialty**, Amazon Web Services (AWS)
2022	**AWS Certified Solutions Architect – Professional**, Amazon Web Services (AWS)
2019	**AWS Certified Solutions Architect – Associate**, Amazon Web Services (AWS)
2021	**AWS Certified SysOps Administrator – Associate**, Amazon Web Services (AWS)
2020	**Certified Kubernetes Application Developer (CKAD)**, The Linux Foundation
2023	**HashiCorp Certified: Consul Associate (002)**, HashiCorp
2023	**HashiCorp Certified: Terraform Associate (003)**, HashiCorp
2020	**HashiCorp Certified: Terraform Associate (002)**, HashiCorp

Presentation

DevFest Seoul by Google Developer Group Korea *Seoul, S.Korea*
PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE> *Nov. 2017*
- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference) *Seoul, S.Korea*
PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS> *Jul. 2012*
- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea *S.Korea*
PRESENTER FOR <METASPLOIT 101> *Sep. 2012*
- Introduced basic procedure for penetration testing and how to use Metasploit

Writing

Smart wheelchair perception using odometry, ultrasound sensors and camera *Publication Robotica, vol. 27, num. 2, pp. 303-310*
SPEAKER& WRITER *2009*

Smart wheelchair perception using odometry, ultrasound sensors and camera *Publication Robotica, vol. 27, num. 2, pp. 303-310*
SPEAKER& WRITER *07/2006*

Smart wheelchair perception using odometry, ultrasound sensors and camera *Publication Robotica, vol. 27, num. 2, pp. 303-310*
SPEAKER& WRITER *2009*

Smart wheelchair perception using odometry, ultrasound sensors and camera *Publication Robotica, vol. 27, num. 2, pp. 303-310*
SPEAKER& WRITER *2009*

Smart wheelchair perception using odometry, ultrasound sensors and camera *Publication Robotica, vol. 27, num. 2, pp. 303-310*
SPEAKER& WRITER *2009*

Program Committees

2016	**Problem Writer**, 2016 CODEGATE Hacking Competition World Final	*S.Korea*
2013	**Organizer & Co-director**, 1st POSTECH Hackathon	*S.Korea*
2012	**Staff**, 7th Hacking Camp	*S.Korea*
2012	**Problem Writer**, 1st Hoseo University Teenager Hacking Competition	*S.Korea*
2012	**Staff & Problem Writer**, JFF(Just for Fun) Hacking Competition	*S.Korea*