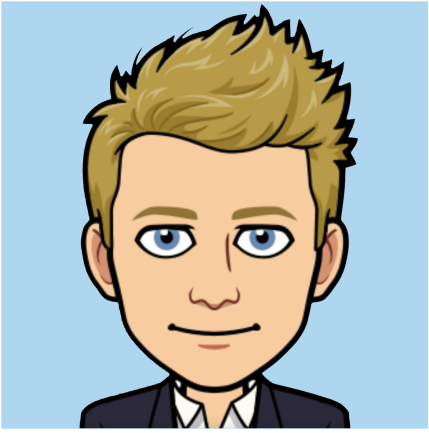

ROMAIN GRAUX

Data Science student

CONTACT

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SKILLS

Python	4+ yrs
C/C++	3+ yrs
Linux	3+ yrs
GIT	3+ yrs
Vim	2+ yrs

LINKS

RomainGrx

romaingraux

PROFILE

Young student in last year of master in Data Science at EPFL who is hungry to learn and practice.

WORK EXPERIENCE

DevOps/FullStack developer — Sep 15 - NOW

Research and Development

A large IAM project required an intuitive interface for role-based access and rights management. At the same time, new workfows for role based access, life time and monitoring had to be established

- Creation of a web portal for role- and rights management
- Establishing a connection to the existing MicroFocus role solution
- Development of new role-based workfows and processes, as well as training and support
- Maintenance of existing infrastructure

Technologies include:

- Django for the roles- and rights management tool backend (backend is a REST interface)
- Angular for the easy frontend interaction
- HTML5/CSS3/Bootstrap3 for the frontend
- Ansible + Docker for 1-click deployments

Achievements include:

- A web based tool for an intuitive role assignment and administration
- Online overview of company structures, projects, etc
- Tools for role review, reporting and troubleshooting

DevOps engineer — Jan 15 - Sep 15

Research and Development

Responsible for infrastructure architecture with regard on the future development and tool selection in the field of identity and access management

- Selection of future-proof tools for a large infrastructure

EDUCATION

2021 - 2022

M.S. Data Science Engineering
École Polytechnique Fédérale de Lausanne
Last year of the Master's degree in Erasmus at EPFL.

2020 - 2022

M.S. Data Science Engineering
École Polytechnique de Louvain
Master's degree in Data Science with first year realized at Louvain-la-Neuve and second year in Erasmus.

2017 - 2020

B. Sc. Engineering
École Polytechnique de Louvain
Bachelor degree in Engineering with Computer Science major and Applied Mathematics minor.

2011 - 2017

High School Degree
Institut Saint-Joseph

High School with mathematics (8h/week) and science (7h/week) options; Final thesis on transition to renewable energy.

- Infrastructure migration into a cloudstack cloud
- Quality assurance in terms of documentation
- Tool development for infrastructure overview
- Development of Ansible modules for client

Technologies include:

- Python for custom tool development
- Ansible for infrastructure migration and cloud configuration
- SLES12
- Django for Visualization

Achievements include:

- Ansible module for SLES12 System + Package registration
- Python tool for ACL-administration in cloud
- Fully automated migration of old systems into cloud with Ansible playbooks/roles
- Django tool on LDAP - Schema Review

Systems Analyst Mar 14 - Jan 15
Research and Development

Responsible for infrastructure architecture / automaton as well as custom tool development on a project for directory services and identity / access management in a large heterogeneous environment.

- Design and implementation of update and deployment process automaton
- Quality assurance by design of infrastructure monitoring, centralized logging solutions and documentation
- Customized tool creation for ldap operations
- Installation and maintenance of single sign on solutions
- Customer support in ldap / infrastructural / programming concerns

Technologies include:

- Ansible for infrastructure automaton and configuration management
- Python for custom Tool development
- nxLog + rsyslog + graylog for logging infrastructure
- NOVELL eDirectory
- Shibboleth as identity Provider combined with ldap
- SLES11
- Git for configuration and documentation versioning

Achievements include:

CERTIFICATIONS

TensorFlow Developer Certificate

Certificate issued by the Google Developers Certification network.

- Drastically accelerated (20x faster) the update process and improved its reliability by introduction of centralized configuration management
- Extended the python-ldap library with interfaces for simplified access and modification of LDAP-Objects and searches
- Introduction of a complete and reliable centralized logging solution including log filtering and alerting for both windows and Linux systems

Systems Analyst Sep 13 - Mar 14
Tourism industry

Responsible for data transformation and tool customization on a migration (legacy c++ code from Solaris to Linux systems) project. The tasks include

- Tool development for identification of critical spots in code
- Legacy code analysis
- Quality assurance
- Department-wide training in python
- Consulting in topics of migration to Git

Technologies include:

- Python
- Git
- Linux (Debian)

Achievements include:

- Implementing code coverage and dynamic code checker for c++ legacy source code based on gcov
- Introduction of Python + Environment in project

Systems Analyst Oct 12 - Sep 13
Tourism industry

Responsible for the infrastructure including performance and quality assurance on a large social media project.

- Organization and care of a cloud network (Debian systems)
- Support for software developers
- Configuration of open source tools for code quality and documentation
- Implementation of performance checks
- Implementation of automated reports on code quality and performance

Technologies include:

- Python + Django for tool development
- Sonar as static and dynamic tool for code analysis

- OpenLDAP for user rights management
- JIRA as the issue tracking/SCRUM tool

Achievements include:

- Customized wiki and documentation application for developers with Jenkins and Git integration
- Django web application to test the product performance using selenium tests in background with customizable tests / test environments ad a graphical evaluation using the jqPlot library (also Jaiascript / jQuery)
- Improvement of the overall code quality by raising test coverage (+ ~30%) and identification + elimination of potential code flaws

IT Consultant Oct 11 - Oct 12
Accenture Tech. Solutions

Large public service project with the goal to establish a platform for handling of finance processes with a very high number of transactions. Main focus was the migration of legacy data, by assuring data quality and transformation into various formats

- Customer consulting with regard to loading / unloading interfaces
- Definition of requirements for transformation of legacy data
- Implementation of algorithms for data transformation
- Tool development for secure data transport
- Tool development for tests of data quality/interface implementation

Technologies include:

- Standard Linux tools, such as awk, sed, grep, ...
- Python for in-depth data analysis
- Java for transport layers
- IBM DataStage

Achievements include:

- Definition of uniform standards
- Introduction of the standard Linux stack as global toolset for data analysis in project