

Benjamin William Mezger

PERSONAL DATA

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| Nationality: | German/Dutch/Brazilian |
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ABOUT ME

I am a driven individual highly motivated in writing well designed software and helping the team grow together. I have a good experience with refactoring large code bases, handling hard deadlines and following software's best patterns and writing HTTP and systems APIs. I have a strong experience in cultural adaptability from working and living in different countries. While in my bachelor, I wrote an academic micro kernel for the RISCv architecture with POSIX support for my thesis, which gave me good background in operating systems.

EDUCATION

Jul 2020 **University of Vale do Itajai (UNIVALI)**

Bachelor of Computer Science.

Jul 2013 **ROC Van Amsterdam**

Technical degree of Information technology.

WORK EXPERIENCE

Oct 2018 **Software Engineer at Cheesecake Labs, Florianópolis**

Current

- Built AWS cloud infrastructure for web applications
- Design and implement well designed RESTful APIs built with Python, Django, Django Rest Framework, PostgreSQL, and AWS infrastructure
- Internal contributions on development processes
- Managed and maintained a large Django e-commerce with various integration, a complex business logic and a large AWS Elastic Beanstalk infrastructure

Dec 2015 **Software Engineer at United Academic, Amsterdam (remote)**

Oct 2018

- Contributed to the development of an open-access library, built with Django, MongoDB and a large infrastructure self-hosted at DigitalOcean
- Migrated a large non-containerized architecture to a containerized web application with Docker, Travis, and Ansible
- Automated build processes, testes, and deployments
- Managing and maintaining a large database of diverse file-types and user data
- Worked with a fully remote team

- May 2017 **Academic researcher at National Education and Research Network (RNP), Florianópolis**
 Apr 2018
- Implementation of a multi-factor authentication system for the CAFé federation
 - Transposition through such authentication through a mobile application system
 - Configuration of service providers (SP), LDAP protocols and Shibboleth Identity providers (LDP)
 - Containerized all services and protocols for mass deployments
- Apr 2016 **Academic researcher (PROBIC) at 4Vision Lab, Florianópolis**
 Jul 2017
- Research on handling mass people data and pattern recognition through image processing
 - Wrote a web crawler with Pipl.com and Facebook Graph integration for facial pattern recognition
- Dec 2015 **Academic researcher (PROBIC) at 4Vision Lab, Florianópolis**
 Jun 2016
- Provided a smart industrial environment for the Web of Things (WoF)
 - Developed a lightweight Angular/C++ application running on a single Beaglebone board
 - Wrote a smart-gateway in C++ for controlling textile clothing machines
 - Automated deployments and added continuous integration
- Aug 2015 **Academic researcher (PIBIC) at 4Vision Lab, Florianópolis**
 Jan 2016
- Research and wrote algorithms on cloth flattening with OpenGL and C++
- Aug 2014 **Developer at Byne , Florianópolis**
 May 2015
- Contributed to the development of communication, monitoring, and control software for critical airport systems
 - Worked mainly with ZeroMQ and Twisted protocol systems
 - Wrote custom Linux boot configuration
- Jun 2012 **Developer at Imgzine, Amsterdam**
 Nov 2013
- Wrote complex web-crawling for news parsing
 - Wrote algorithms on detecting the average time a page gets updated
 - Rewrote outdated Perl crawlers to Python
 - Wrote a diff viewer in Flask for viewing updated page changes

LANGUAGES

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| English | Advanced |
| Dutch | Advanced |
| Portuguese | Advanced |

TECHNICAL SKILLS

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| Programming Languages | Python, C/C++, Go, Assembly, Java and Javascript, Latex |
| Databases: | PostgreSQL, MySQL, SQLite, MongoDB and CouchDB |
| Operating Systems | Linux (Archlinux, Gentoo, Debian), FreeBSD and Mac OSX |
| Editor | Emacs and Vim |
| Tools | Vagrant, Docker, Ansible, Kubernetes, Terraform |
| Services | Amazon AWS, Heroku, DigitalOcean, Scaleway, Jira, Github, Gitlab |
| Project Management | Kanban, Scrum, Agile development, etc. |

VOLUNTEERING EXPERIENCE

- Mar 2020 **Software Engineer at Federal University of Santa Catarina (UFSC), Florianópolis**
Apr 2020 COVID-19 app is a project supported by the Federal University of Florianópolis (UFSC) which controls and prevents the propagation of the COVID-19 pandemic through nearby Bluetooth and GPS. It allows doctors to control and create a rule-based system for managing sick patients.
- Oct 2019 **Lead Software Engineer at Nohs Somos, Florianópolis**
Jan 2020 Nohs Somos provides a social-cause platform for the LGBTQI+ community. They can rate and report local commercial places that are safe or not for the community. It provides features such as a panic button, real-time GPS location sharing, and place reviews.
- Built well designed API with Django, Django Rest Framework and PostgreSQL running on Heroku
 - Created Nohs Somos development process for future developers
 - Worked on a fully remote team
- Apr 2017 **Developer at National Education and Research Network (GidLab), Florianópolis**
Jun 2017 RNP's researchers required virtual machines to do their research by spawning these machines automatically when required.
- Provide a fully automated environment where a researcher can create a configurable environment that runs Shibboleth IdP, SP and LDAP
 - Auto destroy unused VMs
 - Develop and automatic pane which communicates with VirtualVM's backend API

PUBLICATIONS AND PRESENTATIONS

- Apr 2020 **Balanço Geral Florianópolis, local news**
Media (TV) How does the COVID-19 develop by volunteers at the Federal University of Santa Catarina (UFSC) may help prevent COVID-19 propagation in Florianópolis. Video Available in [Youtube](#)
- Oct 2017 **International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)**
Journal Providing a cloud-based smart meter solution to control and monitor electrical quantities of industrial machines.
- Mar 2017 **Mozilla's Campus Club at the University of Vale do Itajaí**
Presentation A beginner's introduction to Git and Github.
- Jun 2016 **IEEE International Conference on Services Computing (SCC)**
Journal Providing a Smart Industrial Environment with the Web of Things and Cloud Computing.