

Sebastian de Castelberg

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Summary

Passionate and polyglot software engineer and pragmatic programmer with 15+ years of experience in full-stack development and infrastructure automation. Autodidact and problem solver. Loves Vim and Linux.

Work Experience

LaceUp GmbH, part time

Zürich, Switzerland

OWNER

March 2020 - present

- Organized the COVID-19 compatible trail running stage race “Tour d’Uetli” on Zürich’s local mountain Üetliberg (tour-uetli.ch).
- Established the website and CMS structure, integrated the API data on the static website and shaped the information architecture (webflow).
- Designed and implemented an API for athlete, effort and ranking data (PHP, Symfony, API Platform, GraphQL).
- Designed and implemented the race effort synchronization and the ranking generation (Symfony Messenger, Strava API, Web Scraping with Symfony Panther and Selenoid).
- Scaled the application design to allow for white-label and fee-based tours (tour-muenchen.de, tour-heidiland.ch, Stripe payments).
- Set up and maintained the infrastructure hosting (Heroku, Google Cloud Platform).

gorilla software GmbH, part time

Zürich, Switzerland

OWNER, SOFTWARE ENGINEER

March 2020 - present

- Swisscom Online Identification: Designed and implemented various product extensions to the Swisscom Online Identification product portfolio (free-lance)

Swisscom (Schweiz) AG

Zürich, Switzerland

SOFTWARE ENGINEER

June 2015 - February 2020

- Designed the Swisscom SaaS web application Online Identification that enables financial intermediaries to automate fully their online customer identification procedures (PHP, Symfony, PostgreSQL, WebRTC, S3, REST)
- Consulted with the product management, security, and compliance teams to identify key requirements and decomposed feature sets for implementation and integration
- Coordinated and supervised development of online identification product in a distributed team of five software engineers
- Set up and maintained automated acceptance test suites (Codeception, ChromeDriver, Jenkins, Docker, Docker Compose)
- Designed and implemented the digital donation platform for letshelp.ch based on the Swisscom crowdfunding platform
- Evaluation and integration of payment gateways to allow project owners to collect payments online on the principle of all or nothing
- Planned and coordinated customization of white-label services (Ruby on Rails engine)
- Automated release processes for digital identification and signing products (PHP, Git, Jenkins, Codeception, Docker)
- Set up and maintained CI/CD pipeline (Jenkins, Artifactory, Cloud Foundry, OpenShift)

gorilla software GmbH

Zürich, Switzerland

OWNER, SOFTWARE ENGINEER

June 2011 - June 2015

- Swisscom Crowdfunding platform: Designed and implemented a white-label crowdfunding platform (Ruby on Rails, PostgreSQL, collaboration with the wemakeit.com).
- Rayneer: Designed a video streaming service (Ruby, Sinatra, Sequel, Redis, HLS). Implemented peripheral systems for playlist management, video transcoding, load management, and testing (Ruby on Rails, Go, Node.js, Zencoder)
- Rayneer: Evaluated and designed a personalized music playlist generator (reinforcement learning, machine learning, Ruby)
- Biorom: Designed and implemented an online multiplayer strategy game (JavaScript, Node.js, WebSockets, Redis, MongoDB)
- Fela: Designed and implemented an application framework for a train customer information system (embedded Linux, Python, Bash, Twisted Matrix). Designed and implemented a VoIP emergency communication platform (Python, VoIP/SIP, Asterisk)
- ScreenConcept: Designed and implemented single-page apps and microsites for customers such as Roche, Michelin, Alfred Müller AG, Hieronymus Stationers AG (Ruby on Rails, Backbone JS, JavaScript, HamL, Sass)
- Coached software teams in Ruby and Ruby on Rails

terreActive AG

Aarau, Switzerland

SOFTWARE ENGINEER

May 2008 - February 2011

- Designed and developed a system infrastructure monitoring and log analysis software (Python, Perl, Java)
- Designed and developed a centralized user interface (Ruby on Rails, REST, microservices)
- Designed and developed a log analysis system and search engine for indexed log queries (Apache Hadoop, Apache Solr)
- Introduced, planned, and maintained test-driven development and CI/CD infrastructure (RSpec, Capybara, Jenkins)

Ascom Schweiz AG, Security Solutions

Hombrechtikon, Switzerland

JAVA DEVELOPER

March 2005 – March 2007

- Designed and implemented a VoIP safety system for road and railway operators (Java, Spring, Asterisk)

Education

University of Applied Sciences Rapperswil

Rapperswil, Switzerland

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE

October 2001 - January 2005

Hamilton Bonaduz AG

Bonaduz, Switzerland

INFORMATION TECHNOLOGY APPRENTICESHIP / FEDERAL VOCATIONAL BACCALAUREATE

July 1997 - July 2001

Skills

Back-end	Symfony, Ruby on Rails, Express, Sinatra, PostgreSQL, MySQL, Redis, Linux
Protocols	HTTP, REST, HLS, OAuth2/OpenID, SIP
Front-end	HTML5, Webpack, Twig, HamL, Sass, WebRTC
Programming	PHP, Ruby, JavaScript, Python, SQL, Bash, Java, Perl
DevOps	AWS, Docker, Kubernetes, OpenShift, Docker Compose, Vagrant, Jenkins, Git, Shell, Vim
Languages	German, Romansh, English, French (basic)