

Sebastian de Castelberg

SOFTWARE ENGINEER

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“Be a Catalyst for Change”

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

Swisscom (Schweiz) AG

Zürich, Switzerland

SOFTWARE ENGINEER

June 2015 - February 2020

- Designed a SaaS web application 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 a white-label crowdfunding platform (Ruby on Rails, PostgreSQL)
- 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 engines)
- Planned and coordinated integration of vendor software and taking in third-party infrastructure
- 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

- 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)
- Birom: 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)