



Sylvain VERLY (32yo)

SOFTWARE ENGINEER

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- › <https://sylvainv.github.io/>
- › English: fluent
- › French: Mother tongue
- › Chinese Mandarin: Elementary Proficiency

## Profile

- ✓ Innovative, quick learner and quick "implementer"
- ✓ Patient and receptive to new ideas and solutions. Love self-improvement and learn from peers, welcome critics!

## Experience

### SOFTWARE ENGINEER, EIC GROUP; SHANGHAI – JAN 2017 - PRESENT

- › PostgreSQL DBA: schema design, data backup and replication.
- › REST API developer using Ruby Sinatra
- › Devops using Ansible. Tech used: Redis, PostgreSQL, Nginx

### FOUNDER, NUODATA; SHANGHAI - APR 2016 - DEC 2016

- › Nuodata is a database REST API that helps you create flexible custom database for your data as well as be able to access it easily using a REST API.
- › SAAS project: PostgreSQL, shared hosting on Digital Ocean, JWT authentication

### SOFTWARE CONSULTANT, EIC GROUP; SHANGHAI – NOV 2015 - APR 2016

- › Provide advice on PostgreSQL database,
- › Implemented REST API to communicate with Salesforce in Ruby
- › Implemented a REST API in Node.js for a recommendation system
- › Researched on feasibility of recommendation, machine learning algorithm

### SOFTWARE ENGINEER, LETSFACE; SHANGHAI – MAY 2014 - NOV 2015

- › Main backend developer for SAAS event system in Node.js data REST API
- › Database schema designer
- › Microservice architecture developer
- › PHP API services: image processing, email sending, social sharing, etc
- › Maintenance of legacy system

### SOFTWARE ENGINEER, THE NETCIRCLE – JUL 2010 - MAY 2014

- › SCRUM sprint, Redmine tracking system
- › Scalable fault tolerant system maintenance. Tech used: Memcache, Redis, RabbitMQ, MySQL, Nginx

### LEAD DEVELOPER, TENTH CLOUD LTD – JAN 2010 - JUL 2010

- › Lead the technical direction to build a CMS system. In charge of the full cycle of development

#### RESEARCH ASSISTANT, MEDICAL RESEARCH CENTER HUMAN GENETICS UNIT - SUMMER 2009

- ▶ The goal of this bioinformatics project was to use data mining techniques to determine genes influences during embryo development.
- ▶ Matlab, data mining.
- ▶ I worked under the supervision of: Pedro Coutinho [p.coutinho@hgu.mrc.ac.uk](mailto:p.coutinho@hgu.mrc.ac.uk), with the help of: Dirk Husmeier [dirk@bioss.sari.ac.uk](mailto:dirk@bioss.sari.ac.uk) Technologies: Matlab

#### MEMBER, CODERBUNKER, SHANGHAI - NOV 2015 - PRESENT

- ▶ CoderBunker is a community for programmers to develop their software development skills; it is a software Hackerspace. The organisation welcomes passionate programmers to discuss, meet and hold workshops to promote software community. The vision of Coderbunker is to raise the bar for software engineering excellence in China.

## Education

#### UNIVERSITY OF EDINBURGH, SCHOOL OF INFORMATICS (1ST RAE UK RANKING) - 2010

- ▶ *MSc Informatics graduated in November 2010*
- ▶ **Topics:** Software Architecture & Project Management, Machine Learning, Genetic Algorithm, Semantic Web.

#### HERIOT-WATT UNIVERSITY, EDINBURGH - 2007-2009

- ▶ BSc (Hons) Computer Science 2:1

## Achievements

#### MSC PROJECT, THE UNIVERSITY OF EDINBURGH, EDINBURGH SUMMER 2010

- ▶ *"Manta: a friendly user interface for a semantic web search engine"*  
The purpose of the project was to find a way to select relevant information from a collection of semantic data given a specific query. The information selected was such that result browsing was user friendly in term of interface and allowed a user to access several part of information more easily. I received a grade of 67% for this project.
- ▶ *Technologies: RDF, RDFs, RDFa, OWL, Python, Redland RDF Libraries, ConTeXt (used to write the report)*

#### BSC (HONS) PROJECT. HERIOT-WATT UNIVERSITY, EDINBURGH - SPRING 2009

- ▶ *"NASA SAFER's using BMethod":* the purpose of this project was to formally specify a Space Walking device for astronauts (the SAFER) by using the B- Method. I introduced the knowledge and implication around this technology to my supervisor and received good feedback from him. This project taught me to think meticulously and how to prioritize my work. I received a grade of 69% for this project.
- ▶ *Technologies: B-Method, B-Tools, ConTeXt (used to write the report)*