



Sylvain VERLY (32yo)

SOFTWARE ENGINEER

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- › <https://sylvainv.github.io/>
- › English: fluent (PTE 90)
- › French: Mother tongue
- › Chinese Mandarin: Elementary Proficiency

## Profile

Highly qualified software engineer with a proven track record of building, designing and maintaining high-availability fault-tolerant systems. I can handle several languages. I am creative thinker, I like challenges and learn new technology rapidly.

## Experience

### SOFTWARE ENGINEER, EIC GROUP; SHANGHAI – JAN 2017 - OCT 2018

- › Worked as a PostgreSQL DBA, I improved the schema design and setup database backup and replication in prevention of a data loss event.
- › Built a REST API using Ruby Sinatra with the rest of the team
- › Improved on the design of by introducing queueing system for message exchange between our micro services
- › Tech: Ansible, CircleCI, PostgreSQL, Ruby

### 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

### DATA ANALYST, CLOVERISE; SHANGHAI – APR 2016 - JULY 2016

- › Extracted and analyzed keywords associated with web scrapped data from [pagejaunes.fr](http://pagejaunes.fr)
- › Tech: Python, Jupyter-Notebook, Pandas

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

- › Provided advice on PostgreSQL database,
- › Implemented REST API to communicate with Salesforce in Ruby that vastly improved the speed of the Salesforce integration with our system,
- › Investigated on the feasibility of a machine learned recommendation system based on the available data.

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

- › Developed and designed, with other team members, the micro service architecture for what was to be a SAAS event product system.
- › Tech: Node.js, PostgreSQL

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

- › Designed, agile managed and developed a internal tool for employee evaluation
- › Scalable fault tolerant system maintenance of several website totaling 3 million users and up to 30k connected users in a single day
- › Tech used: Memcache, Redis, RabbitMQ, MySQL, Nginx

#### 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)*