

Enrico Sartorello
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EXPERIENCE

brandcrumb, Backend Software Engineer *January '13 – present*

Design, development, testing and deploy of the finance/accounting/payments component of the system. The component needs to continuously ingest and reliably process vast amounts of data and link them to the right entities. Moreover, it needs to scale as the data demand increases and all over the process the (money) math needs to be fully consistent.

Evaluated and adopted Hibernate, Spring (Core and AOP), Restlet; JBehave, DbUnit, Mockito, H2SQL have been adopted for the testing part.

Leading the unit testing, integration testing, stress testing and functional testing campaigns for the component.

Full redesign of the analytics data store of the system, migrating from a SQL solution to a NoSQL one, providing safe scalable access to structures finely tuned for the data access patterns of the system and wrapping everything in a clean, maintainable, tested set of Java libraries for easy integration with the existing components.

Automatized the deployment of the system architecture by adopting Chef and writing part of the needed recipes. Worked on the deployment, maintainance, monitoring and reliability of the system architecture hosted in Amazon Web Services.

Vistaprint, Software Engineer (Payments) *June '12 – December '12*

Design, development and testing of software components enabling the company business to support new payment providers and to provide a wider set of payments options for customers.

Reliability, fault-tolerance, integrity and robustness as key drivers throughout all the development cycle.

Volunia, Backend Software Engineer *July '11 – May '12*

Configuration, deployment and testing of a large-scale CDN for a social web-application, including automation and customization of on-demand cache invalidation.

Responsible for caching at browser side, CDN side and backend side. Reduced the overall loading times of a factor 10x-1000x, depending on the functionalities and context.

Using Java, Python and HBase to represent, store, update and efficiently retrieve customized meta representations of the websites crawled, published through self-developed HTTP APIs.

TECHNICAL

- **Languages:** Java, C++, C#, SQL, Bash
- **Operating Systems:** Linux, Windows
- **Database Systems:** MySQL, MongoDB, Hbase, DynamoDB
- **Cloud technologies:** Amazon EC2, VPC, RDS, SQS, Cloudwatch
- **Various:** Spring, Hibernate, Chef, Restlet, git, SVN

EDUCATION

University of California, Irvine

September '10 – June '11

UCEAP fellowship.

Research on Event-based networks. Placed on the Dean's Honor List for all the three quarters spent there.

Final year GPA: 4.0.

Università degli Studi di Padova, Italy

September '09 – December '11

Master degree in Computer Science. Graduated with summa cum laude.

Final thesis project on the design, development, testing and evaluation of an event-based system for queue areas awareness.

The system uses a Bayesian statistics framework to infer the length of a queue given different kind of data sources (checkins, tweets, photos, users observations).

Università degli Studi di Padova, Italy

September '06 – June '09

Bachelor degree in Computer Science. Graduated with summa cum laude.

Thesis on web-based collaborative system enabling artists to work on a shared virtually-infinite canvas, taking care of the performance issues, using Django, jQuery and ad-hoc developed image-processing C libraries as the main technologies.