Robert Bigaignon

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EXPERIENCE

Software Engineer — Yelp (San Francisco, CA)   since 2011

Currently working as a backend engineer maintaining and developing Yelp's revenue system. My contributions to date include:

- Implementation of a Direct Debit Tornado/Thrift service responsible for processing payments for UK accounts.
- Implementation of a set of batches processing and consolidating advertising revenue into reports used by the finance department to report earnings.
- Successfully mentored 3 engineers including two full-time new graduates and one intern.

Software Engineer — Syncsort (Woodcliff Lake, NJ)   2008-2011

Contributed to the development of DMExpress, a high performance ETL framework.

- Design and implementation of DMExpress API allowing partners to accelerate their applications using DMExpress `C++` library.
- Complete refactor of DMExpress' serialization module using Boost libraries.
- Led an initiative to modernize Syncsort's infrastructure, which involved: migrating of in-house issue tracking system to Trac; promotion of Git as a replacement for legacy SCM; facilitating peer code review process.

Software Engineer Intern — Siemens (Princeton, NJ)   Winter/Spring 2007

Contributed to RadBuilder, an image processing framework used for the rapid prototyping of application. My main contribution involved facilitating the segmentation of tumors in 3D images.

- Implementation of implicit surface interpolation algorithms used for human guided surface segmentation.
- Implementation of contour approximation algorithms.
- Implementation parametric curves widgets.

INDEPENDENT WORK

Maarifa   2011

Served as *pro-bono* developer for Maarifa, a non-profit organization building an education platform in Kenya.

- Designed and implementation of a web service facilitating the management and distribution of content to the students. The service was prototyped using Django.
- Provided technical guidance to the CEO for the future development of the service.

EDUCATION

Master of Science, Computer Science   2008
Stevens Institute of Technology, Hoboken, New Jersey
GPA: 4.0

Bachelor of Science, Computer Science   2007
EPITA, Kremlin-Bicêtre, France
GPA: 3.8

SKILLS

Proficient: Python, `C/C++`.
Tools and applications: GNU, MySQL, SQLAlchemy, Tornado, Thrift, Git, Emacs, LaTeX.