

CHENYU LU

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EXPERIENCE

Density Technologies¹

Software Engineer R&D

Sep 2014 - Present

Paris, France

- Moved application build tool from Ant to SBT to support Scala language. Improved company's development environment by developing a Eclipse SBT plugin and evolving the continuous integration tool (Hudson). Greatly reduced the compilation time of the product.
- Migrated product's interface layout data from XML storage to database storage, added lazy loading feature, which halves the launching time of the product and reduces memory consumption by 100M+.
- Developed new loading mechanism from database using queryable text data type (JSONB in PostgreSQL, XML in SQLServer) and Scala macros, which resolved a blocking performance issue for a client.
- Integrated the framework with an internationalization library (gettext), allowing the application to have Chinese and French versions and easily add more.

Density Technologies

Intern

Mar-Sep 2014

Paris, France

- Developed a prototype web interface for company's desktop product, using the technics of Java, SQL, JSON, Play Framework, Scala, JavaScript, jQuery, Spray and Akka.

EDUCATION

Conservatoire National des Arts et Métiers, Paris

2013-2014

Master of Science and Technology, specialized in Architecture and Integration of System and Software
Graduation project: "Migration of a large desktop application to a web interface"

Mark of defense: 17/20 with comment "very good!"

Southeast University, Nanjing, China

2008-2012

Bachelor of Engineering, specialized in Electrical, Electronic and Communications Engineering Technology
GPA: 4.0

SKILLS

Programming Languages

Scala, Java, Haskell, SQL, JavaScript

Protocols & APIs

PlayFramework, Akka, XML, JSON, REST

Databases

MySQL, PostgreSQL, SQLServer, H2

Tools

Git, SBT, SVN, Hudson, Eclipse, IntelliJ IDEA

Languages

English: Professional Working Proficiency

French: Limited Working Proficiency

Mandarin Chinese: Native Proficiency

AWARDS

Meritorious winner of 2011 Interdisciplinary Contest in Modeling

Mar 2011

Issuer: The Consortium for Mathematics and Its Applications, USA

¹Density Tech is a software vendor developing business software solutions for the financial industry, with a Java based product.