

Work history

Research and development engineer - Kware, Aix en provence, France (September 2013 - Present)

- Developed Eclipse plugins to improve documentation and coding process.
- Developed JUnit extension for providing server based test environment.
- Developed multithreading facilities, and parallel workflow management system.
- Optimized a Lexicalization algorithm which leads to a 30% speedup.
- Redesignated code architecture for a web document retrieval algorithm and internal distribution solution.
- Developed generation tools for internal database solution.
- Developed distributed web crawler for indexing e-Commerce website.
- Developed internal indexing API and integrated Apache Lucene and Apache Solr engines.
- Redesignated internal DAO solution based on Lucene, optimizing performance and adding distributed architecture.
- Designed an architecture for a micro service oriented solution, using Docker and Apache Kafka.
- Configured a development platform using Docker suite, Gitlab, Jenkins with container based CI.

Teacher - Université d'Avignon et des Pays de Vaucluse, Avignon, France (September 2013 - Present)

- Delivered software engineering course and testing course for master degree, 30 hours per year.

Research assistant - LIA, Avignon, France (June 2011 - July 2013)

- Participated to research for the coupled problem of land use and network design.
- Implemented operation research algorithm for Quadratic Assignment Problem (QAP).
- Implemented a decision support tool to relocate set of facility through a transportation network.
- Co-authored « *Decouple accessibility and automobile mobility in urban areas* » for the Transport Research Arena 2014 conference.

Education

Université d'Avignon et des Pays de Vaucluse - France

Master's degree - Software engineering (2011 - 2013)

Bachelor's degree - Computer science (2008 - 2011)

University of Birmingham - United Kingdom

European semester exchange - Computer science (2011)

Projects (more at <https://github.com/Faylix>)

Marklet - <http://github.com/Faylix/marklet>

Java Doclet that generates Markdown javadoc files.

Google code jam API - <http://github.com/Faylix/googlecodejam-client>

Reversed google code jam platform API and implemented Java client for it.

Jammy - <http://faylix.fr/jammy>

Implemented set of Eclipse plugin for managing Google code jam development.

Certifications

- Android associate developper - <http://bcert.me/szltzxy>

Languages and Technologies

- Java, Python, Lua
- Git, SVN, Maven, Docker, Jenkins, Lucene, Zookeeper
- UNIX based system, iOS, OSX, Android