

Employment

Research and Development Engineer - *Kware, Aix en provence, France* (September 2013 - Present)

- Redesigned code architecture for a web document retrieval algorithm.
- Redesigned code architecture for a lexicalization algorithm which leads to a 30% speedup.
- Developed multithreading facilities, and parallel workflow management system.
- Developed a custom JUnit environment in order to improve productivity.
- Developed custom Eclipse plugins to improve documentation process and coding process.
- Redesigned internal distribution solution for executing machine learning based algorithm.

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

- Software engineering course, master degree, 30 hours per year.

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

- Participated to research for the coupled problem of land use and network design.
- Implemented operation research algorithms for Quadratic Assignment Problem.
- Implemented a decision support tool to relocate set of facility through a transportation network.

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 exchange semester (2010 - 2011)

Publication

Decoupling accessibility and automobile mobility in urban areas

Transport Research Arena 2014 - #20017

Projects

Google Code Jam - Client API - <https://github.com/Faylix/googlecodejam-client>

Client API which provides automatic submission, input downloading, and contest monitoring features.

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

Jammy is a set of Eclipse plugin for managing Code Jam development that integrates contest front end into Eclipse.

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

Marklet is a custom Java Doclet which generates a javadoc in a markdown format which is ready to use in GitHub.

eKite - <https://github.com/Faylix/ekite>

eKite is an Eclipse plugin that brings integration for Kite programming copilot.

MATSimServer - <https://github.com/Faylix/MATSimServer>

RESTful service that aims to run and manage simulation using MATSim engine.

Languages and technologies

Programming languages - Java, LUA, Python, C/C++, JavaScript, PHP

Software engineering tools - Maven, Jenkins / Travis - CI, Git, SVN, JIRA, Eclipse, OSGi

Operating systems - Linux, OSX