Fayez Lahoud

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OBJECTIVE

To obtain a summer job in computer science and machine learning.

EDUCATION

École Polytechnique Fédérale de Lausanne   Sep 2015 - Present
M.S., Computer Science

American University of Beirut   Sep 2009 - Jul 2013
B.E., Computer and Communication Engineering
Minor in Mathematics
Dean's Honor List for 7 times

RESEARCH EXPERIENCE

American University of Beirut - Research Assistant   Feb 2012 - May 2012
- UI and Engine for data mining tweets by users and countries
- Tweet analysis and sentiment prediction (calm, neutral, aggressive)

Technologies: Java, Swing, Twitter API, REST Architecture

American University of Beirut - Final Year Project   Sep 2012 - May 2013
- Genetic algorithm for daily rides scheduling
- Android application for requesting rides and viewing routes
- Best poster award at the FEA student and alumni conference

Technologies: Java, Android, Google Maps API, Genetic Algorithms

École Polytechnique Fédérale de Lausanne - Semester Project   February 2016 - May 2016
- Automated pipeline for digitizing archived paintings
- Image processing and OCR for locating and reading information in scans
- Barcode locating and reading for identifying paintings

Technologies: Python, Anaconda, OpenCV, Tesseract, Image Processing

PROFESSIONAL EXPERIENCE

Murex Systems - Software Developer   Jul 2012 - Sep 2015
- Java Swing manipulation API for test developers
- Web templates for test reports and automated tools
- Java-JavaScript bindings API in JavaFx Webview

Technologies: JavaFx, Groovy, Maven, JavaScript, AngularJS, Ruby, Rails

Vidinoti SA - Software Developer   Jul 2016 - Sep 2016
- Image recognition and tracking using AGAST detectors and BRIEF descriptors
- NPM module development for automating descriptors calculation
- Mobile JavaScript library development for Augmented Reality applications

Technologies: JavaScript, RequireJS, NPM, Gulp, Python, Image processing

PUBLICATIONS   **American University of Beirut**
An intelligent carpooling app for a green social solution to traffic and parking congestions
16th IEEE Intelligent Transportation Systems, 2013

American University of Beirut
An intelligent and fair GA carpooling scheduler as a social solution for greener transportation
17th IEEE Mediterranean Electrotechnical Conference, 2014

TECHNOLOGY   **Computer Languages**: C++, Java, Groovy, Scala, Ruby, JS, Python, MATLAB
SKILLS   **Frameworks**: Android, JavaFx, Rails, Angular, OpenCV

LANGUAGES   **English - French**: Fluent
Arabic: Mother-tongue
Spanish: Beginner