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Mr Marouan OMEZZINE

Objective

A position in a progressive growing company in which advancement opportunities are afforded to the qualified individual. The environment should be challenging and competitive.

Professional work experience

Since Nov. 2008 Proxym-IT, Sousse - TUNISIA

System / Software Engineer

- Contributing to the development of a money transfer platform through mobile phones (the server side).
- My mission consists of adding new core functionalities to both: Ruby On Rails existent Web UI and Erlang payment and business logic server, deploying the solution, Interfacing with a banking system.

Key-words: Erlang, Rails, VPNs and JSON.

Since Nov. 2008 Proxym-IT, Sousse - TUNISIA

Web Engineer

- E-commerce Web site, full-text search and indexation using sphinx search engine, advanced search, highly configurable searches, "did you mean" system for best matching, advanced tagging system, and web2.0 style.

Key-words: sphinx, full-text, spell-check, PHP5 (CakePHP, oop), performance (High load), Ajax, advanced search and data relevancy, mCache, memcached.

Nov. 2008 – Jan 2009 Proxym-IT, Sousse - TUNISIA

System / Web Engineer

- Design and development of a Web oriented solution for parking management using the Ruby On Rails framework with high performance and load constraints.
- This system is able to collect information from sensors through a gateway that will convert data to XML and send it to our system using HTTP post.
- The system is fully configurable (assigning displayers to sensors, places to streets ... etc.) using CSV files.

Key-words: advanced statistics using Adobe Flex (charting, XLS export, PDF report generation), Rails, Google Maps, MySQL, Triggers, Apache2, mongrel clusters, XML, crontab.

July 2008 – August 2008 Proxym-IT, Sousse - TUNISIA

Software Engineer (Web 2.0 development)

- Contributing to the development of web application for photos management between photographs and press agencies (shop, sharing photos, advanced search, professional social networking, requesting photos...)
- This application handles high volume of photos (15.000 photos per a day).

Key-words: Ruby On Rails, Ajax and SQL Optimization.

Undergraduate traineeships and projects

July 2007 – August 2007 Cristal Lab (Research in Network), La Manouba - TUNISIA

R&D Engineer (Traineeship)

- Validation of 802.11 Traces (XML format produced by patched simulators or PCMCIA Network cards with embedded hacked/tuned firmware): designing reattempt strategy in case of error detection and a mechanism to accept variant behaviors.

Key-words: Java, SWING, JGoodies, Log4j, Jexl, SCXML, Jdom and formal validation process.

January 2007 - April 2007

ENSI, La Manouba - TUNISIA

2MP Project

Designing and releasing a tool for named YAVISTA.

- YAVISTA is a visualization tool making the debugging and the understanding of the MANET simulators 802.11 MAC layer easier thanks to a timeline representation. It works with NS-2 and Glomosim.
- Realizing two packages for both: NS-2 and Glomosim simulators.
- Instrumentation and some reverse engineering of the MadWifi generic driver working with Wi-Fi cards based on Atheros chips.
- Setting up a Wiki Web Site for the project and the whole graphic chart.

Project Web Site: [Http://yavista.sourceforge.net/](http://yavista.sourceforge.net/)

Key-words: Java, SWING, JGoodies, Pcap, Log4j, Jexl, SCXML, Jdom...etc.

September 2006 – December 2006

ENSI, La Manouba - TUNISIA

UNIX Project

- Design and implementation of a multi-threaded GUI application that aims to synchronize between threads (POSIX 1003.1b.) using locks and mutexes mechanism.

Key-words: C, Pthread, GTK, Anjuta, Glade, Linux.

Summer 2006

ENSI, La Manouba - TUNISIA

Developer (Traineeship)

- Implementation of a Bejeweled-like game under Linux.

Key-words: C, NCurses.

Education

July 2008

ENSI

La Manouba - TUNISIA

- Graduated from ENSI (Tunisia): Computer Engineering diploma.
- Specialized in: software engineering applied to new technologies.

2005-2008

ENSI

La Manouba - TUNISIA

- Engineering studies at the National School of Computer Sciences.

2003-2005

IPEIM

Monastir - TUNISIA

- Preparatory Institute of Study Engineers of Monastir.

June 2003

Mars 2nd 1934

Sousse - TUNISIA

- Baccalaureate diploma.

Languages

- Arabic: mother tongue.
- French: fluent.
- English: good.

Technical skills

- **OS Linux**, UNIX, Windows95/98/NT/Millennium/2000/**XP**, Dos.
- **Embedded systems and mobiles** OS 20 (STMicroelectronics), RT Linux, VHDL, FPGA, Codesign and Android.
- **Programming languages** **Java**, C/C++, Maple, **Erlang**, **Ruby**, VB, Script Shell, Sed, Awk, Lex and Yacc.
- **Information and data processing** Signal and image processing, filters design, DCT, FFT, DFT, MatLab and Compressions and encoding norms.
- **Web development** **LAMP platform**, **PHP**, **Ruby On Rails**, Ajax, **HTML**, **XML**, XSL, CSS, Wiki, CMS (**Joomla**, Mambo, PhpNuke), RIA and **Flex**.
- **Assemblers and architectures** Intel x86, MIPS R2000/R3000 and ST 20.
- **ToolKits** GTK NCurses, MFC, JGoodies.

- **BDMS** Oracle, **SQL**, **MySQL**, **SQLite**, PL/SQL, **Microsoft Access**.
- **Methodology** **UML**, Design Patterns and RESTful.
- **Networking** **OSI**, RNIS, Frame Relay, ATM, xDSL, QoS, **TCP/IP**, UDP, **IPv4**, IPv6, X25, Ethernet, Routing, 802.3, Wi-Fi, WiMax and RTP/RTCP.
- **Editors** **Microsoft Office**, Open Office, **Latex**.
- **IDE** **Eclipse** and **Netbeans**.
- **Versioning** CVS, SVN.
- **Graphics** Adobe Photoshop, GIMP, Adobe Illustrator.
- **Test and profiling** **JMeter**, **Apache Bench**, JConsole.