SEBASTIEN DROUYER

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EDUCATION

INSA LYON (IF) - Lyon, France
Institut National des Sciences Appliquées de Lyon / National Institute of Applied Sciences of Lyon
Master's Degree in Computer Science, September 2008 - June 2011
School ranked 3 / 126 in French engineering schools according to the Usine Nouvelle newspaper [1]

INSA ROUEN (SIB) - Rouen, France
Institut National des Sciences Appliquées de Rouen / National Institute of Applied Sciences of Rouen
Preparatory school, September 2006 - June 2008
International section (half the courses were taught in English)
School ranked 53 / 126 in French engineering schools according to the Usine Nouvelle newspaper [1]

LFKL - Kuala Lumpur, Malaysia
Lycée Français de Kuala Lumpur / French School of Kuala Lumpur (High school)
French Core curriculum in science and technology with honours (Singapore), September 2004 - June 2006

EXPERIENCE

RESEARCH AND DEVELOPMENT ENGINEER - Novius, Lyon, France
December 2010 - Present

- Conception and implementation of an Enterprise social software, ResoNova[2]. Used internally as well as by various customers such as banks (Banque postale) or Research Institutes (Bioaster). I also trained two developers to enable them to configure and extend the software. Technical support.
- Conception and implementation of an open source Content Management System named Novius OS[3]. Part of the core team, composed by 3 engineers and the Chief Information Officer. The software was used by the company developers to implement new websites. I also trained 12 developers and took part in the redaction of the online documentation[4] as well as in the open-source community management.
- FuelPHP (open source PHP framework) contributor, trainer and speaker. Trained internal development teams. Conference speaker (see presentations section).

RUBY ON RAILS DEVELOPER (INTERNSHIP) - Safecoms, Bangkok, Thailand
June 2010 - October 2010

- Implemented new functionalities and improved performances to a Customer Relationship Management system named Peppercan[5].
- Consultant at Venda, reviewed tickets in order to improve performance and customer satisfaction.

UNITY DEVELOPER (INTERNSHIP) - Lumai Prod, Bangkok, Thailand
June 2009 - August 2009

- Implemented new functionalities and improved performances to a Wii video game.

PRESENTATIONS

FUELPHP: A FRAMEWORK, YES - AUTOMAGIC, NO!
French conference introducing the FuelPHP framework[6]

- November 2012: PHPTour event in Nantes, France[7]
- July 2012: Libre Software Meeting event in Geneva, Switzerland[8].

CONTESTS AND AWARDS

INTEL PERCEPTUAL COMPUTING CHALLENGE: FINALIST + STILL ONGOING
June 2013 - September 2013
International software creation contest (750 finalists [9]).
Conception and implementation of a software maximizing the Intel Perceptual Computing SDK [9] (gesture tracking, face tracking, voice recognition) : my entry was Perceptual Earth Facts [10].
Winnings: Creative* Interactive Gesture Camera (worth $149) for now + still ongoing

NASA TOURNAMENT LAB - ROBONAUT CHALLENGE: 2ND AND 1ST PLACE [11]
May 2013
International TopCoder marathon challenge (1190 registrants, 40 competitors [11] [12]).
2nd on original contest, 1st on the extended contest.
Conception and implementation of a vision algorithm capable of detecting leds and buttons on a taskboard. The algorithm is intended for Robonaut 2, an humanoid robot NASA wants to send to the ISS in order to assist astronauts[13]
Winnings: $3900

NASA TOURNAMENT LAB - LONGERON CHALLENGE: 17TH PLACE [14]
January 2013 - February 2013
International TopCoder marathon challenge (4056 registrants, 459 competitors [12] [14]).
Conception and implementation of an algorithm optimizing the ISS solar collectors positions in order to maximize the generated power[15]

GITHUB GAME OFF: 1ST PLACE [16]
November 2012
International game creation contest (1300 registrants, 200 competitors [16]).
Conception, design and implementation of a web unity game[17]
Winnings: Mac Mini (worth $700)

NASA TOURNAMENT LAB - USPTO ALGORITHM CHALLENGE: 6TH PLACE [18]
March 2012 - April 2012
International TopCoder marathon challenge (150 registered, 28 competitors [12] [18]).
Conception and implementation of a vision algorithm capable of detecting figures and their labels on a patent paper[19]

INFOTEL MOBILE APPLICATION CONTEST: 2ND PLACE [20]
February 2011 - May 2011
National Student contest (15 competitors teams).
Conception, design and implementation of a mobile application allowing the users to buy eco-responsible food [20]
Winnings: Galaxy Tab (worth $400)

INFOTEL WEB APPLICATION CONTEST: 1ST PLACE [21]
January 2010 - May 2010
National Student contest (15 competitors teams).
Conception, design and implementation of a web application allowing to store and manage documents. I used the open-source software Tesseract (OCR recognition) in order to transform scanned forms (pictures) into usable data [21]
Winnings: Toshiba Tecra computer (worth $1000)

MASSIVE OPEN ONLINE COURSES

COURSERA - UNIVERSITY OF WASHINGTON: COMPUTATIONAL NEUROSCIENCE[22]
Mai 2013 - June 2013: Statement of Accomplishment (97%)

COURSERA - UNIVERSITY OF EDINBURGH: ARTIFICIAL INTELLIGENCE PLANNING[23]
February 2013 - March 2013: Statement of Accomplishment (97.6%, with distinction, 98th percentile of passing students)

COURSERA - STANFORD: ALGORITHM, DESIGN AND ANALYSIS, PART 1[24]
February 2013 - March 2013: Statement of Accomplishment (97%)

COURSERA - BERKELEY: SAAS
February 2012 - April 2012: Statement of Accomplishment (73%)

COURSERA - STANFORD: MACHINE LEARNING[25]
October 2011 - January 2012: Statement of Accomplishment (100%)

HOBBIES AND MISCELLANEOUS

Travels:

- Lived 6 years in Damascus, Syria
- Lived 3 years in Kuala Lumpur, Malaysia
- Lived 1 year in Bangkok, Thailand
- Visited more than 20 countries mainly in Asia and Europe

Open-source author and contributor[26]. Most popular / important (more than 10 projects):

- Author of jquery.earth-3d: JQuery plugin that allows you to draw a beautiful 3d spinning earth on canvas[27]
- Author of jquery.serialize-hash: JQuery plugin that returns a hash from serialization of a form[28]
- jugglingdb (Nodejs ORM) core contributor[29]

Piano: 10 years, Lyon and Nice national conservatories of music
Bodybuilding
Bicycle

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Notes

[1]Usine Nouvelle's online ranking: http://www.usinenouvelle.com/comparatif-des-ecoles-d-ingenieurs-2013 (french)

[2]ResoNova's website: http://www.resonova.fr (french)

[3]Novius OS' website: http://www.novius-os.org/ (english)
Novius OS' youtube channel (presentation videos): https://www.youtube.com/user/NoviusOS (english)

[4]Novius OS documentation website: http://docs.novius-os.org/ (english)

[5]Peppercan's website: http://www.peppercan.com/ (english)

[6]FuelPHP conference' slides: http://www.slideshare.net/novius-os/rmll-2012-confrence-fuelphp (french)

[7]FuelPHP conference's audio recording: http://youtu.be/TbIFqYwz-SI (french)

[8]FuelPHP conference's video recording: http://youtu.be/BbmZiJpTGSY (french)

[9]Intel Perceptual computing challenge's website: https://perceptualchallenge.intel.com/ (english)

[10]Perceptual Earth Facts' presentation video: http://youtu.be/k2dnIkJhJyk (english)
Perceptual Earth Facts' text presentation: http://drouyer.com/perceptual-challenge/perceptual-earth-facts/help.jpg (english)

[11]Original contest rankings: http://community.topcoder.com/longcontest/stats/?module=ViewOverview&rd=15652
Original contest registrants:
http://community.topcoder.com/longcontest/'module=ViewProblemStatement?module=ViewRegistrants&rd=15652
Extended contest rankings: http://community.topcoder.com/longcontest/stats/?module=ViewOverview&rd=15611
Extended contest registrants:
http://community.topcoder.com/longcontest/'module=ViewProblemStatement?module=ViewRegistrants&rd=15611

[12]In TopCoder competitions: Registrants are people who subscribed to the contest, but did not necessarily submitted anything. Competitors are people whose submission was accepted (sent on time, compilation successful, respected limitations...).

[13]Contest's presentation video: http://youtu.be/uXZlyyJohAI
Contest's problem statement: http://www.topcoder.com/iss/robonaut/

[14]Contest rankings: http://community.topcoder.com/longcontest/stats/?module=ViewOverview&rd=15520
Contest registrants:
http://community.topcoder.com/longcontest/'module=ViewProblemStatement?module=ViewRegistrants&rd=15520

[15]Contest's presentation video: http://youtu.be/qiFDrwnUgUc (english)
Contest's problem statement: http://www.topcoder.com/iss/longeron/ (english)

[16]Contest's winners: http://github.com/blog/1337-github-game-off-winners (english)

[17]Contest's description: https://github.com/blog/1303-github-game-off (english)
My contest entry: http://sebastien.drouyer.com/hotfix/ (english)

[18]Contest rankings: http://community.topcoder.com/longcontest/stats/?module=ViewOverview&rd=15087
Contest registrants:
http://community.topcoder.com/longcontest/'module=ViewProblemStatement?module=ViewRegistrants&rd=15087

[19]Problem statement: http://community.topcoder.com/longcontest/?module=ViewProblemStatement&rd=15087&pm=11839 (english)

[20]Contest webpage (subject + rankings): http://www.infotel.com/rejoignez-nous/concours-etudiants/concours-2010-2011/ (french)

[21]Contest webpage (subject + rankings): http://www.infotel.com/rejoignez-nous/concours-etudiants/concours-2009-2010/ (french)

[22]Course website: https://www.coursera.org/course/compneuro (english)

[23]Course website: https://www.coursera.org/course/aiplan (english)

[24]Course website: https://www.coursera.org/course/aiplan (english)

[25]Course website: https://www.coursera.org/course/ml (english)

[26]Github repositories: https://github.com/sdrdis (english)

[27]Presentation website: http://sebastien.drouyer.com/jquery.earth-3d/ (english)

[28]Github repository: https://github.com/sdrdis/jquery.serialize-hash (english)

[29]Presentation website: http://jugglingdb.co/ (english)