Ossama Edbali

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Education

University Of Birmingham   **Birmingham, UK**

MSci Computer Science (4th year)   *2014–2018*
- First and second year passed with First Class in all modules (more details available upon request).
- Programming languages covered: Java, C/C++, OCaml, Haskell and Dependently Typed Programming in Agda.
- Software engineering topics: agile methodology, TDD, UML, refactoring and design patterns.
- Human-Computer Interaction: including UX and User Centred Design.
- Operating Systems: developing kernel modules and device drivers.

G. Marconi IT Institute   **Rovereto, Italy**

High School, 100/100 overall - 15/15 in Computer Science   *2008–2014*
I attended a professional Computer Science Institute in high school. The CS syllabus included algorithms, data structures, OOP, UML, MVC architecture, ER diagrams, relational algebra for databases, TCP/ID model, OSI model, ARP, ICMP, SSL/TLS, DNS and socket programming for networks.

Skills profile

Programming languages and tools:
- Strong knowledge in: JavaScript, PHP, C#, Java, Python and R - 6 years of experience.
- Experience using version control system: Git (following industry standards on branching model).
- Unit testing using the appropriate test suites for each language (Java TestNG, Mocha JS etc. . .).
- Worked on projects involving LAMP and LEMP stacks using Vagrant for setting up replicable development environments.

Web technologies:
- Frontend: proficient in using MEAN stack, ReactJS, BackboneJS and Polymer with configuration, build, packaging and testing tools such as NPM, webpack, MochaJS and so forth.
- Backend: PHP Laravel / Symfony / CodeIgniter / NodeJS - implemented MySQL web-based clients, SOAP web services and courier platforms.
- Django MVC (Python) - implemented bioimaging APIs, learning management systems and protein-protein interaction network visualisation.

Databases: Worked on projects using MySQL, MongoDB and PostgreSQL (GIS datasets). My main focus is on database optimisation, query optimisation and table refactoring.

Work experience

Code First: Girls (Entrepreneur First)   **Birmingham, UK**

Frontend Web Development lead instructor   *January 2016–May 2016*
- Delivered the course and took the students through the teaching material and competition.
- Tracked student progress and assessed understanding through targeted questions.
- Provided additional support whenever needed (through social media and one-to-one meetings)
- Nominated as the Instructor of the month of April 2016.

University Of Birmingham   **Birmingham, UK**
Student Ambassador   *June 2015–Present*
- Student Ambassador helping with UG Open Days, Applicant Visit Days, Careers Fairs and other events.
- This role has further developed my communication as well as my team working skills.

Codemakers Ltd   **Derby, UK**
Web developer   *July 2015–September 2015*
Full time backend web developer.

- Web and API development using Laravel (API development) and CodeIgniter (SOAP web services).
- Refactoring and porting previous projects.
- I improved my skills in git workflow, unit testing of web applications using external resources (such as DB), design patterns (repository, facade and dependency injection) and team interaction.

Codemakers Ltd   **Derby, UK**
Web developer   *August 2014–October 2014*
Worked as an intern in web development (front and back end) and database optimisation.

- Database and web application optimisation: query optimisations and network requests inspections.
- Web design and development: for specific info about the projects I worked on please contact me.
- I improved my skills in detecting "bad code smells", refactoring and JavaScript performance monitoring.

Mitsubishi Electric   **Cracow, Poland**
Training   *May 2015*
Mitsubishi Electric FA Centre training for students.

- Took part in a two-weeks "full immersion" course at the Mitsubishi Electric of Cracow.
- The aim of the project was to improve the students' skills in the field of robotic industry and automation.
- Topics: Programming industrial robots (4 and 6 axis - SCARA), PLCs, Inverters and design of simple HMIs (Human Machine Interface) using GOT 1000 series.

Web Valley, FBK   **Castello di Fiemme, Italy**
Researcher   *June 2013–July 2013*
Worked with a team of young researchers from around the world to implement a web platform for bioimaging.

- The aim was designing a novel web tool for studying change in cells (e.g. in morphogenesis or in disease) from different points of view and in interdisciplinary teams.
- My team was in charge of developing the API structure and the web interface (using Django Python). The biological data came from studies of a group of international researchers and scientists (Lani Wu and Stephen Altschuler - Texas University, Anna Alisi - Ospedale Pediatrico Bambino Gesù, Gabriella Rustici - European Biological Institute).
- Learned how to work with various teams with diverse background skills. My team's main task was to to gather requirements from other teams in order to build a functioning API.
- For more information: `https://webvalley.fbk.eu/`

Comunità della Vallagarina   **Rovereto, Italy**
Web developer and analyst intern   *June 2013*
Worked as an intern in the IT and environment departments in Rovereto City Council

- Developed the mobile version of the already existing desktop website using jQuery Mobile using industry standards at the time.
- Developed some useful JavaScript widgets in the ecology section (autocomplete, pagination etc. . .).
- Gathered, analysed ecological data and produced detailed reports on the city council waste disposal.

Languages skills

Mother tongue(s): Italian, Arabic

Other language(s): English - C1 (IELTS)