

Ossama Edbali

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Education

University Of Birmingham

Birmingham, UK

MSci Computer Science

2014–2018

- First year passed with average of 85% including 100% in Robot programming, 99% in Information and the Web, 92% in Software Workshop and 83% in Language and Logic.
- Programming languages covered: Java, C/C++, OCaml and Haskell.
- Software engineering topics: agile methodology, TDD, UML, refactoring and design patterns.

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 was as follows:

- Foundations of Computer Science: algorithms, data structures, OOP, UML and MVC architecture.
- Database Theory: Entity-Relationship diagrams, transactions, ACID, relational algebra.
- Networks: TCP/IP model, OSI model, ARP, ICMP, SSL/TLS, DNS, Socket programming etc. . .

Skills profile

Programming languages and tools:

- Strong knowledge in: C#, Java, Python, PHP, SQL, JavaScript and R - 5 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 (for example TestNG in Java).
- Worked on projects involving LAMP and LEMP stacks using Vagrant and Chef for setting up replicable development environments. Worked on MEAN stack web apps and variations of it.

Web technologies:

- Django MVC (Python) - implemented bioimaging APIs, learning management systems and protein-protein interaction network visualisation.
- PHP Laravel / Symfony / CodeIgniter / NodeJS - implemented MySQL web-based clients, SOAP web services and courier platforms.
- On the frontend side I am proficient in AngularJS, BackboneJS and Polymer.

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

Work experience

Code First: Girls

Birmingham, UK

Instructor

January 2016–Present

Frontend website development lead instructor.

- Deliver the course and take the students through the teaching material and competition.
- Track student progress and assess understanding through targeted questions.
- Support the course ambassadors with their socials activities.
- Provide additional support whenever needed.
- Nominated as the Instructor of the month of April 2016.

University Of Birmingham*Student Ambassador***Birmingham, UK***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*Web developer***Derby, UK***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*Web developer***Derby, UK***August 2014–October 2014*

Worked as an intern in web development 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*Training***Cracow, Poland***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 HMI (Human Machine Interface) using GOT 1000 series.

Web Valley, FBK*Researcher***Castello di Fiemme, Italy***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).
- I learned how to work with various team with diverse background skills. My team's task was to gather requirements from other teams in order to build a functioning API.
- For more information: <https://webvalley.fbk.eu/>

Comunità della Vallagarina*Web developer and analyst intern***Rovereto, Italy***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.
- Developed some useful JavaScript widgets in the ecology section (autocomplete, pagination etc. ...).
- Gather, analyse ecological data and produce detailed reports on the city council waste disposal.

Languages skills

Mother tongue(s): Italian, Arabic

Other language(s): English - C1 (IELTS), German (Elementary proficiency)