

Teodora Sandu

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Self-driven and ambitious graduate, able to adapt to changing environments and deliver under high pressure. Full of initiative and always looking to cultivate new and existing skills, I am open to opportunities and aspire to be part of a team of like-minded, passionate people.

Education

University of Birmingham

MSci Computer Science with Industrial Year

September 2014 - July 2019

- Overall Weighted Mark: 83.7 (*First Class Honours*).
- GPA Score: 4.25 (*Cum Laude*).
- Relevant modules include: C/C++ (94), Java (96), Machine Learning (87), Neural Computation (95), Intelligent Data Analysis (71), Functional Programming (97), Compiler Construction (88), Web Development (95), Databases (90), and Software Engineering (91).
- Awards received: *Best Final Year Student in MSci Computer Science*, *Best First Year Student in BSc Computer Science*, and *Personal Skills Award (Foundation)*.

National College Zinca Golescu, Romania

Mathematics and Computer Science

September 2010 - July 2014

- Received the *Diploma of Baccalaureate* in Mathematics (99), C/C++ (100), and Romanian (97).

Work Experience

IBM Cloud, UK

Software Engineer (Full-time)

September 2019 - Present

- Returned to the squad to work on containerising the product using Docker and Kubernetes.

Software Engineer (Intern)

July 2017 - July 2018

- Worked as a full-stack developer on a Cloud product built on top of a micro-service architecture.
- Significant contributions included re-implementing multiple legacy user-interfaces in React, developing and improving the persistence and API layers for various micro-services using Node.js and CouchDB, and delivering a public API in Node.js using OpenAPI and code generation as an innovative solution.
- Assumed the role of squad lead front-end developer and took on a side-project for improving the UI.

American Express, UK

First Foundry Analyst (Intern)

June 2016 - August 2016

- Collaborated with software developers and UX designers in an agile environment, delivering a product built using the model-view-controller pattern.
- Developed a REST API in Java using Spring and Hibernate, which was then being consumed and rendered using AngularJS.
- Implemented automated tests written in a behaviour-driven development style, using Cucumber and Selenium, and maintained perfect test coverage through unit testing.

Skills

React	HTML	Helm	SQL	Git	C/C++
Node.js	Sass	Docker	REST	Travis	OCaml
AngularJS	Webpack	Kubernetes	Java	Jenkins	Haskell

Teamwork

- Collaborated successfully on the development of a learning tool in Java, using the GraphStream library to create a desktop application with complex visualisations of a data structure and related algorithms.
- Illustrated excellent teamwork skills while tasked with innovating automobile technologies, which involved organising brainstorming sessions, conducting research using client feedback and personas, and creating a high-level mock-up using Sketch and InVision.

Effective communication

- Demonstrated good communication skills whilst participating in the Birmingham Project, by taking part in planning and research meetings with students from various disciplines, and presenting our findings on sustainable technologies in front of a lecture theatre full of people.
- Improved public speaking skills by presenting in front of VPs and colleagues during the American Express internship, as well as by giving a playback to the VP of IBM Hybrid Cloud Integration.

Problem solving

- Built an interpreter and compiler for a JavaScript-like language using OCaml and x86 Assembly, implementing complex optimisations and structures such as for loops, while loops, pointers, and arrays.
- Led and developed a time-saving solution to a problem during my work experience at IBM; with the help of an OpenAPI definition containing our client's acceptance criteria, I developed a code generator for a Node.js Express server, speeding up the development process massively.

Volunteering

ThinkIT

Hampshire, UK

2017 - 2018

- Aided in organising and planning a two-day event at IBM, aimed at encouraging young pupils into STEM careers and teaching them about the many paths available to them.

Code Club

St Mary's Catholic Primary School, UK

2016 - 2017

- Organised weekly coding tutorials for primary school children, teaching them Scratch, HTML, JavaScript, and CSS using good, adaptable communication skills.

Save the Children

Romania

2011 - 2014

- Contributed by offering support and mentoring children at the local centre on a weekly basis after school, as well as raising money for the hospital's maternity section and being a constantly reliable source of help.