

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, Kubernetes, and Helm.

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

- Led a university team in the development of a learning tool with complex visualisations; set up the team's Kanban board, communication channels, version control tool, and sprint planning meetings.
- Collaborated on a design thinking activity focused around innovative automobile technologies; organised weekly brainstorming and planning sessions, conducted research using client feedback and personas, and created a high-level mobile application mock-up using Sketch and InVision.

Effective communication

- Took part in the Birmingham Project, where I had to use adaptive communication when planning and doing research with students and professors from various disciplines; presented a solution to promoting sustainability on campus in front of a lecture theatre full of people.
- Led presentations in front of VPs and colleagues at American Express, where my team won a presenting challenge; gave multiple sprint playbacks to the IBM Hybrid Cloud Integration department and VP.

Problem solving

- Built an interpreter and compiler for a JavaScript-like language using OCaml and x86 Assembly, implementing complex optimisations and iterative paradigms.
- Suggested a novel approach to implementing complex APIs, based on the use of OpenAPI definitions; implemented a code generator which not only sped up the epic delivery, but is still used one year later to expand the API.

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.