

Teodora Sandu

☎ (+44) 7821 405578 | ✉ sanduteo95@gmail.com | 🏠 <https://sanduteo95.github.io>

Self-driven and ambitious graduate, able to adapt to various situations and deliver under high pressure. Full of initiative and always looking to cultivate new skills, I am open to new opportunities and aspire to make a significant contribution and collaborate with other people who are passionate about their work.

Education

University of Birmingham

September 2014 - July 2019

MSci Computer Science with Industrial Year (First Class Honours)

- Overall Weighted Mark: 83.7.
- GPA Score: 4.25.
- Relevant modules include: C/C++ (94), Java (96), Machine Learning (87), Neural Computation (95), Intelligent Data Analysis (71), Nature-Inspired Search and Optimisation (94), Functional Programming (97), Compiler Construction (88), Web Development (95), Databases (90), Software Engineering (91).
- Awards received: *Cum Laude*, *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

September 2010 - July 2014

Mathematics and Computer Science

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

Work Experience

IBM Cloud, UK

July 2017 - July 2018

Software Engineer

- Worked as a full-stack developer on a cloud product built on top of a micro-service architecture.
- Used Node.js and Loopback in the back-end, React, HTML, and Sass in the front-end, and Jenkins, Travis, and GitHub for continuous delivery.
- Significant contributions included re-implementing multiple legacy user-interfaces, developing and improving the persistence and API layers for various micro-services, and delivering a public API using code generation as an innovative solution.
- Took on the role as the squad's leading front-end developer and got involved in a UI side-project.
- As a result of my performance, was given full marks on my final assessment.

American Express, UK

June 2016 - August 2016

First Foundry Analyst

- Collaborated with software developers and UX designers in an agile environment, delivering a product built using the model-view-controller pattern.
- Developed the RESTful web services in Java using the Spring Framework and Hibernate, consumed them using AngularJS and rendered the results using HTML and Less.
- Implemented automated tests written in a behaviour-driven development style, using Cucumber and Selenium, and maintained perfect test coverage through unit testing.

Skills

React	C/C++	Sass	Agda	SQL	Jenkins	Git
Node.js	HTML	AngularJS	Haskell	Python	Artifactory	Docker
Java	CSS	OCaml	LaTeX	x86	Travis	Kubernetes

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, organising brainstorming sessions, conducting research using client feedback and personas, and creating a high-level mock-up using Sketch and InVision.

Effective communication

- While participating in the Birmingham Project, I demonstrated good communication skills 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.
- My public speaking skills have improved through various presentations given in front of VPs and colleagues during my American Express internship, and have been established as I was asked to present delivered functionality in front of 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 cycle massively.

Volunteering

ThinkIT

2017 - 2018

Hampshire, UK

- 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

2016 - 2017

St Mary's Catholic Primary School, UK

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

Save the Children

2011 - 2014

Romania

- 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.