Amin Mansour

amansour1@outlook.com | www.aminmansour.me | linkedin.com/in/amin-mansour-a9a52016a/ | 07506531886

Personal Summary

I am a computer scientist with a special interest in algorithmic computation. The quintessential ability to produce a simulation of essentially anything and allow it to function on its own.

I am a keen student with a global vision and have a thirst to produce the most minimalistic and user-friendly solutions to evolving tech problems. I have the knack and the tendency to use unorthodox and smart ways to achieve those goals and especially love working with interesting people to realize those large-scale goals.

I can write programs in multiple languages and have had extensive experience in developing mobile, web and desktop applications using those languages. Each of those languages came with their own way of addressing and solving problems.

During my experience at King's, I took many interesting models and was involved in a lot of fascinating projects. I was given the opportunity to go in deep with many of the computational philosophies and practices. I am currently doing a master's at Imperial College London where I am focusing on artificial intelligence and advanced computing techniques.

Imperial College London Advance Computing MSc (Current)

King's College London Computer Science BSc: : 1st class honors (87%)

First year : (Computer Systems : 94%), (Database systems : 79%), (Data Structures : 96%), (Elementary Logic With Applications : 89%), (Foundations of Computing 1 : 92%), (Introduction to Artificial Intelligence : 91%), (Programming Applications : 76%), (Programming Applications : 78%)

Second year : (Foundations of Computing 2 : 82%), (Operating Systems and Concurrency : 92%), (Internet Systems: 85%), (Object-Oriented Specification and Design : 81%), (Practical Experiences of Programming : 99%), (Programming Language Design Paradigms: 76%), (Software Engineering Group Project : 85%)

Third year : (Distributed Systems : 91%), (Network Security : 93%), (Parallel Algorithms : 91%), (Optimization Methods: 79%), (Algorithms for the World Wide Web and Social Networks : 91%), (Cryptography and Information Security 72%)

A-Level

- Mathematics : A*
- Chemistry : A
- Physics : B
- ICT (AS) : B

Programming Languages

- Java
- Android
- Javascript
- Ruby
- C++
- CSS
- SQL
- HTML
- Scala

Frameworks/Web services/Misc

- Rails
- Angular 2.0
- JQuery
- Bootstrap
- Google Firebase
- JavaFx
- Illustror
- Photoshop

Programming Methodologies

- Functional Programming
- Object Orientated Programming
- Parallel Programming and Threading
- Database Normalization
- Security methods

Worked at a start-up Brainswap to develope a social mobile application (Summer of 2017/18)

The app aims to connect students from all around the world into a single platform, where users can ask questions of their respected discipline and socialize with their fellow peers. Allowed me to work in a group; to exchange ideas and take those ideas and apply them to produce tangible results and contribute to making a full-scale cross-platform mobile application.

Worked in groups of 8 to make an web application for a real-life client

Allowed me to learn how to work in a very highly-skilled work environment, to produce a full-scale web application. I had the first-hand experience working with agile development and had regular meetings with the client to exchange the requirements of the project. Out of a total of 30 groups, we achieved the best award for our application.

Project manager of a group of 6 developers making an application for a-level economic students

I lead a group of 6 developers in the production of a desktop application. This experience gave me first-hand insight on how to mobilise people with various skill sets. I was able to coordinate all phases of the project whilst managing and motivating my team.

Developer and publisher of 2 android applications

Designer and developer of "Quick Fire Maths" and "Balloon Up" games. Both were developed using Android. The games are both live on the android store and can be downloaded for free.

Taught beginner programmers Java, HTML and CSS

Teaching allowed me to develop and explain complex concepts in a logical way to beginners, by converting the difficult jargon into understandable explanations.

Work Experience at Islington North Library (July 2015 - September 2015)

Taught me how to communicate and interact with customers and how to work within a team to reach the objectives.

Push-down Automata Educational Simulation For my Final Year Project

For my final project at King's, I worked with Dr. Agi Kurcuz to develop a simulation of a push-down automaton, one of the core technologies deployed in computational theory. The desktop application is a PDA simulation intended for both students and lecturers'. A program which allows the user to visualize what the PDA machine is doing at each transition and allow the user to easily go forward and backward in the computation. I presented my project and was awarded a final score of 85% for my report and presentation.