# George Soteriou

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## Education

**Imperial College London** — London, UK
*MEng Computing Artificial Intelligence* — 2017 - 2021
First Year Overall: 60.2 %, Second class upper division (2:1)
First Year Programming: 81 % (*C, C++, Java, Haskell*)

**English School Nicosia** — Nicosia, Cyprus
*Secondary School* — 2010 - 2016
A-Levels: Maths, Computing, Further Maths, Physics and Greek with A* A* A A A

## Work Experience

**Cypriot National Guard** — Cyprus
*Corporal* — 2016 - 2017
For my army service, I worked here for 14 months. Starting my training as an artillery soldier, my experience in Computing was quickly realized and I was moved to the central artillery command centre to work as the Network Manager. I was responsible to maintain a secure connection to a local server and make sure no unauthorized data left the network. I also passed the Corporal exam, so I was responsible for 5 recruits (training, well-being, etc)

**Think Learning Centre** — Nicosia, Cyprus
*Web Developer* — 2014 - 2016
Developed and maintained an online presence for the company. Setup local file-server and company specific Email accounts to increase collaboration.

## Volunteer Experience

**Imperial College London Department of Computing Society (DoCSoc)** — London, UK
*Webmaster* — 2018 - 2019
Working as part of a committee responsible for 1300 students, forming one of Imperial College's largest and most active societies. My responsibilities included updating and maintaining docsoc.co.uk and portal.docsoc.co.uk as well as helping the rest of the team running the society.
As part of DoCSoc I have helped organize Google DevFest 2018 and in the process of organizing ICHack 19.

**Cypriot Enterprise Link** — Nicosia, Cyprus

***Hack{Cyprus}, the largest and first Hackathon in Cyprus.*** — 2013 - 2014
My responsibilities included finding sponsors before the event and judging teams for prizes on the day.

***Hack{Cyprus} Code School, events for younger children to learn coding.*** — 2014 - 2015
My responsibilities included teaching younger students the basics of programming through 'hour of code' and robot programming with blocks to complete challenges.

**English School Nicosia Technology Society** — Nicosia, Cyprus
*President* — 2015 - 2016
During weekly sessions, I would teach students about simple programming algorithms and how to make their own website with simple HTML and CSS. My initiative in creating this Society created a new community in our school that has now grown to over 100 people and the society is still running today after 3 years by students I taught.

**English School Nicosia Amateur Radio Society** — Nicosia, Cyprus
*President* — 2012 - 2016
During weekly sessions, I would teach younger students about Amateur Radio and how it helped shape technology today. I would also help students prepare for the Amateur Radio license exam. During weekends I would organize and take part in 24-48 hour global Amateur Radio competitions.
In 2012 I won first in Europe in CQWW (the largest yearly competition).

## Projects

**DoCSoc Sponsor Portal** github.com/docsocsf/sponsor-portal
*NodeJS, Express, Python, MongoDB, HTML, PUG, Docker, CircleCi, Kerberos, AWS (EC2, S3)*
Project leader and full stack developer of an online portal for both members and sponsors of DoCSoc. Using the portal members and sponsors can interact through opportunities and applications. This portal is the first point of contact for many Imperial College Computing students for Job Opportunities and Internships. It has and will continue to make a huge impact to the computing community at Imperial. It is split into 5 subprocesses. The auth server and auth proxy that handles authentication for Imperial members. The MongoDB database that stores all the sponsors' information and all interactions between them and the members. AWS s3 that stores all the documents users upload. The Nodejs server that handles GET requests to send back each users front-end securely and POST requests to edit the database, handle logins and user sessions.

**PINTOS**
*C*
I was project leader in a team of 4. We worked on an operating system framework for the 80x86 architecture. We were tasked to upgrade the kernel threads, loading and running user programs, and Virtual Memory management. It now supports thread concurrency and priorities, multiple user processes working on files in the virtual filesystem and memory eviction to swap.

**ARM-11** github.com/georgesoteriou/arm_Project_C
*C, Raspberry PI*
Worked in a team of 4 to create a compiler for ARM assembly files into object code, and then also created a program to simulate the execution of the object code. This would all run on a Raspberry PI.

**PI DJ**
*Javascript, C, Raspberry PI*
Worked in a team of 4 to create an online template creator and a C program that translates the templated picture into a musical melody on a Raspberry PI.

**DoCSoc and ICHack Website** docsoc.co.uk ichack.org
*NodeJS, Wintersmith, Haskell, Netlify, React*
Worked on creating, updating and maintaining the websites, as well as Haskell plugins that are used to automate website functions for the DoCSoc Team.

**Think Leaning Centre Website** thinklearningcentre.com
*HTML, Javascript, JQuery, Netlify*
Designed and built the website as well as set up automatic deployment.

**Some of my GitHub side-projects**

- Myo DJ georgesoteriou/Myo-Dj-Script
  *Javascript, Myo API*
  In a hackathon, I used a Myo Device to capture the motion of the wearer's hand and dynamically create music according to the movements they make. The project is able to record a movement pattern and repeat that while the user can layer new movement-music above it.
- Sketch animating genetic algorithm and evolution georgesoteriou.com/rockets-genetic-algorithm
  *Javascript, p5.js*
  Dynamically created animation to simulate genetic evolution of nodes trying to reach a target. The best nodes are inspected at the end of a generation. Using a gene pool and random selection, a new generation is created by combining 2 "parent" nodes per new node. According to the random start seed 100% of the population will reach the target in between 7 and 70 generations. Also worked on displaying statistics of this animation by analyzing all possible seeds.
- Web app to classify pictures using Brain.js Neural Network georgesoteriou/NN-Draw-Classifier
  *Javascript, brain, js*
  A blank canvas to draw on and using a click of a button the "AI" will associate the pattern drawn to the button label clicked. It can then be used to reverse predict a new sketch it has never seen before and classifies it as one of the labels.