

# GEORGE SOTERIOU

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## EDUCATION

### Imperial College London

*MEng Computing Artificial Intelligence*

London, UK

2017 - 2021

Second Year Overall: Second class upper division (2:1) (69.74%)

First Year Overall: Second class upper division (2:1) (60.02%)

### English School Nicosia

*Secondary School*

Nicosia, Cyprus

2010 - 2016

A-Levels: Maths, Computing, Further Maths, Physics and Greek with A\* A\* A A A

## WORK EXPERIENCE

### Cisco Systems

*Platform Engineer, Technology Intern*

London, UK

June 2019 - September 2019

Worked on a personal project to create Cisco specification kubernetes clusters within AWS (EC2) and GCP (Cloud Compute) as an alternative to the in-house clusters they use for the Meet PaaS (WebEx Teams) meeting platform. Used Terraform to create infrastructure and Ansible to provision the cluster. The cluster architecture involved bastion hosts and separate internal and external subnets. Pod routing was achieved using custom gateway nodes with code to register and keep track of a mapping from pod subnets to nodes, with Cilium networking. The process was fully automated using Jenkins. Using Helm charts, all the apps required for Meet PaaS were deployed to the clusters I created.

### Goldman Sachs

*Technology Intern*

London, UK

April 2019 - June 2019

Shadowed full time engineers and learned a lot about how the company operates. After research, with a team of 4 we presented our work for ways they could improve the current platform used for Big Data Storage within Goldman. We were nominated for best team.

### Cypriot National Guard

*Corporal, Compulsory Military Service*

Cyprus

July 2016 - September 2017

Trained in discipline and combat as artillery soldier. Transferred to Network Manager position after 6 months and I was responsible for my regiments computer network security services. During my service I passed the Corporal exam and was given responsibility for 5 recruits (training, well-being, etc)

### Think Learning Centre (family business)

*Web Developer*

Nicosia, Cyprus

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)

*Webmaster*

London, UK

2018 - 2020

For 2 Years 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, ICHack 19, and soon ICHack 20

### Cypriot Enterprise Link

*Hack{Cyprus}, the largest and first Hackathon in Cyprus.*

Nicosia, Cyprus

2013 - 2014

My responsibilities included finding sponsors before the event, organizing and judging teams on the day.

*Hack{Cyprus} Code School, events for students to learn coding.*

2014 - 2015

My responsibilities included teaching students the basics of programming through 'hour of code' and robot programming with blocks to complete challenges.

### English School Nicosia Technology Society

*President*

Nicosia, Cyprus

2015 - 2016

During weekly sessions, I taught 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 4 years by students I taught.

### English School Nicosia Amateur Radio Society

*President (Licenced Amateur Radio user since 2013 - 5B4 AJZ)*

Nicosia, Cyprus

2012 - 2016

During weekly sessions, I taught 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 organized and took part in 24-48 hour global Amateur Radio competitions.

In 2012 I won first in Europe in CQWW (the largest yearly competition).

**Mutating Admission Webhook for Kubernetes**

*Go, Linux, Kubernetes, Networking*

During part of my Cisco project I was having problems accessing Cisco internal Docker registries. Using Go I created a webhook to change the registry to an external mirror and update authentication for docker. The Mutating webhook image was automated through jenkins and deployed after Go test passed.

**PINTOS**

*C, Linux Kernel*

As Project leader in a team of 4, I worked on an 80x86 architecture operating system. We worked on the kernel threads to include priorities, safe concurrency using locking algorithms and priority donation when resources are locked. We also implemented dynamically loading and running multiple user programs concurrently, along with Virtual Memory management and concurrently safe memory eviction and swapping.

**DoCSoc Sponsor Portal**

*Version 1: NodeJS, Express, Python, MongoDB, HTML, PUG, Docker, CircleCi, Kerberos*

*Version 2: Firebase, Vue.js, MLKit, REST*

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 made, and will continue to make a huge impact to the computing community at Imperial. The first version included the auth service to handle authentication for Imperial members, a MongoDB database and a Nodejs Express back end. The whole portal was reworked 1 year later to work with Google Firebase and Vue.Js. Work was done on using ML kit to automate suggestion of opportunities according to previous application.

**Other side-projects**

- Prolog logic model based problem solving

*Prolog*

Created a logical model world that could solve any problem (within the model domain) given a specific starting point and a knowledge base.

- Sketch animating genetic algorithm and evolution

[georgesoteriou.com/rockets-genetic-algorithm](https://georgesoteriou.com/rockets-genetic-algorithm)

*Javascript, p5.js*

Dynamically created animation to simulate genetic evolution of nodes learning to reach a target.

- Web app to classify pictures using Brain.js Neural Network

[georgesoteriou/NN-Draw-Classifer](https://georgesoteriou.com/NN-Draw-Classifer)

*Javascript, brain, js*

Neural Network to dynamically learn and predict patterns drawn on a canvas.