

# Kyriaki Lagou

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EDUCATION	<b>University of Southampton</b> , Southampton, UK MEng Computer Science   First Class, Honours	Sep 2015 – Jun 2019
	<b>Churchill Academy and Sixth Form</b> , Bristol, UK A-Levels: Mathematics: A*   Physics: A   Chemistry: A   Fine Art: A	Sep 2010 – Jun 2014
SKILLS	<b>Highly Skilled and Proficient</b> Java, Python <b>Proficient</b> HTML5, CSS3, SQLite, React <b>Technologies</b> Spring Boot, Maven, Flask-RESTful, Docker, pytest, Spock testing <b>Development</b> Git, Agile development, Jira, Confluence,	
EXPERIENCE	<b>Publicis Sapient, Backend Software Engineer</b> , London, UK	Sep 2019 – Current
	<ul style="list-style-type: none"><li>Developing Java Spring Boot microservices that interact with Google Cloud PubSub and Kafka.</li><li>Creating Helm charts for Kubernetes.</li><li>Implemented React app for show-casing internal API functionality.</li></ul>	
	<b>Cyber Range for Blockchain Platforms, Developer</b> , Southampton, UK	Oct 2018 – Mar 2019
	<ul style="list-style-type: none"><li>Built comprehensive taxonomy report covering the attack surface of Bitcoin and Ethereum.</li><li>Built server side for bespoke cyber range using Flask RESTful. Carried out code reviews throughout cyber range development.</li><li>Project manager for team of 4. Responsible for testing out Ethereum attacks using cyber range.</li></ul>	
	<b>Hewlett-Packard (HP Inc), Security Research Intern</b> , Bristol, UK	Jun 2018 – Sep 2018
	<ul style="list-style-type: none"><li>Research-oriented internship focusing on network traffic analysis.</li><li>Developed pcap parser (Java), for extracting meta-data from network packets. Data sourced from two years of network traffic captures, using Wireshark.</li><li>Carried out data analysis (Python) and visualisation to determine common patterns in parsed data.</li><li>Used unsupervised learning techniques (DBSCAN &amp; SVM models) for network traffic classification. Successful in detecting various types of malicious traffic. Work was presented to research lab staff.</li></ul>	
PROJECTS	<b>Fair Division for Task Allocation Processes</b>	
	<ul style="list-style-type: none"><li>Designed and implemented web app for allocating tasks in novice Agile teams, utilising fair division algorithms. Graded at 86%. Personally invited to present at computing lab opening ceremony.</li><li>Modelled algorithms as constrained optimisation problems using CPLEX. Built back-end using Java.</li><li>Created dynamic front-end using HTML, CSS, JavaScript, and Java Server Pages. Used SQLite to handle database queries from client and server.</li><li>Carried out user study involving 13 participants indicated system showed notable improvement on existing approaches.</li></ul>	
	<b>Collaborative Filtering Recommender System</b>	
	<ul style="list-style-type: none"><li>Implemented collaborative filtering approach for predicting unseen user ratings of online dating profiles based upon relevant neighbours from a large data-set of 19 million records. Developed using Java and SQLite.</li></ul>	
	<b>Neural Network to Identify Fraudulent Bank Notes</b>	
	<ul style="list-style-type: none"><li>Implemented single-layer neural network, in Python, for identifying fraudulent bank notes with over 99% accuracy.</li></ul>	
	<b>Supervised Learning Techniques to Identify Diabetes and Breast Cancer</b>	
	<ul style="list-style-type: none"><li>Implemented and compared logistic regression and k-nearest neighbours algorithms (Python) in order to predict if a person has diabetes and malignant tumors.</li></ul>	
	<b>Individual Selection for Cooperative Group Formation Investigation</b>	
	<ul style="list-style-type: none"><li>Explored social niche construction in populations of interacting 'cooperative' and 'selfish' agents.</li><li>Used Python to model numerous 'evolving' populations, explored population dynamics, and implemented novel 'family' construction to more closely mimic real world social group construction.</li></ul>	