

# ANDREW GEORGIU

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*Software Engineer — Google DSC Lead — Microsoft Student Ambassador*

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<b>Programming Fluency:</b>	Java, Python, JavaScript, PHP, HTML, CSS
<b>Programming Experience:</b>	Haskell, C#, ReactJS, TensorFlow, PyTorch, R, SQL, Apache Storm & Spark
<b>Cloud Technology:</b>	AWS, Google Cloud
<b>Languages:</b>	English (Native), Greek (Conversational)

## EDUCATION

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**University of Cambridge, United Kingdom** *Sept. 2021 - June 2022*  
*Advanced Computer Science, MPhil*

- Awarded **TPP Alan Turing Scholarship** from Kings College which granted £26,399 in funding towards research project.
- Completing Natural Language Processing research in probing pre-trained language models on English learner data.

**University of Liverpool, United Kingdom** *Sept. 2018 - June 2021*  
*Computer Science, BSc - First Class Honours: 84% Average*

- Andrew Young Prize 2020-2021: Awarded for best overall performance in Final Year Honours examinations.
- BCS Merseyside Prize 2020-2021: Awarded for being the best overall student on a degree programme

## WORK EXPERIENCE

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**Software Engineering Intern - Barclays** *June 2021*

- Worked in Global Payments with the Faster Payments team, developing my own in-house analytical portal to help my team analyse when infrastructure upgrades will be needed to handle increasing volumes of processing payments.
- Created React platform with Flask backend that enabled processing millions of volumetric payment data, graphing data and creating a seasonal prediction model for calculating future volumetric data.

**Software Engineering Intern - Barclays** *June 2020*

- Worked within the document management team, working on migration of IBM CMOD to AWS services.
- Enabled mutual authentication throughout their cloud infrastructure, creating Chef Cookbooks in Ruby to interact with Barclays CA to generate host certificates on EC2 instances.
- Lead workshops introducing and teaching other interns Enterprise AWS technology.

**Founder and Owner - LouGeo Ltd.** *Jan. 2019*

- Full-stack developer for local businesses to help improve efficiency and globalising Liverpool's undiscovered culture.
- Created a stock management portal for Yiamas Greek Taverna with ReactJS integrated with Firebase. Enabling the restaurant to organise their deliveries, maximising their kitchen's productivity.
- Developed website for local music artist (Music Of Babel) using ReactJS with Express.js backend allowing him to serve his music to 50,000+ listeners.

## PROJECTS

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**Reddit Analysis Project** *2021*  
*Available at <https://www.reddit-political-analysis.com/>*

- Developed language model to classify political sentiment on Reddit communities, to identify harmful echo chambers following the 2020 US election.
- Developed platform in React with Gatsby for static site generation. Model data served from behind Google Cloud load-balancer with instances spun up from docker deployment.

**Objective Restaurant Review Website** *2020*  
*Front End: HTML, CSS, PHP, MongoDB; Backend: Python (Flask).*

- Fine-tuned pre-trained language model BERT on the sentiment analysis task of restaurant review score classification.
- Model trained in Google Colab on 1.5 million restaurant review's text and user ratings (1-5). (extracted from YELP dataset)
- Built a REST API, hosted on a Google Cloud instance to serve predicted review ratings, based on user's review text.

**Nike Account Creator** *2018*  
*Available on GitHub*

- Built in JavaScript, NodeJS with Puppeteer API.
- Application to generate Nike Accounts to take advantage of their raffle system. Aided me in winning 15 raffles to date through increased probability and has an active community following on Reddit and GitHub.

## COMPETITIONS

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**Village Data Quest - 1st Place** *2020*  
Data mining and Statistical Analysis Competition. Won the competition, receiving the Most Innovative Algorithm Award for having the most efficient solution to the 1000x1000 grid variation on the maximum sub-array sum problem, through an evolution of Kadane's algorithm which utilised dynamic array re-calculating and GPU optimisation.

**Google Hashcode 2020 - Top 100 UK** *2020*  
Competed in Google Hashcode with a team of 2 other members, finished in the Top 100 in the UK Qualification Round with our python solution.