Carlo Camurri

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Bilingual Italian/English; French (B2 level)

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Education

University College London (UCL)   September 2016 – Present
- Master of Engineering in Computer Science (3rd Year)
- Year 1: first class, 81% average (top 10-percentile); Year 2: first class, 85% average; Year 3: first class, 87% average

The International School in Genoa   September 2014 – May 2016
- International Baccaulaureate (IB) 39/45 overall; 7 (A*) in Higher Level Physics
- Extended Essay (Physics): "Projectile motion of small extended objects"; using EyesWeb – software for real time multimodal analysis

Work Experience

G-Research, *Software Engineering Intern*   June 2019 – Present
- Worked on several applications for the management and scheduling of jobs in large clusters of Windows and Linux based nodes
- Developed a new application to provide researchers with an interface to monitor and cancel their jobs
- Technologies: .NET Core (C#), Angular (TypeScript), SQL, HTCondor, Docker, Kubernetes, Jenkins

NeuroResponse, NHS Innovation Accelerator, *Full Stack Software Engineer*   July 2018 – June 2019
- Developed full stack application to enable patients suffering from multiple sclerosis to record their symptoms and fill in questionnaires pertaining to their courses of medication
- Comprised of a REST API, a mobile application for the patients and a web portal for the clinicians
- Technologies: Python, AWS (Lambda, DynamoDB, Cognito), Android (Kotlin), React

Casa Paganini – InfoMus Research Center, DIBRIS, University of Genoa, *Research Intern*   June – July 2017
- Applied machine learning techniques to the analysis of a motion capture repository of human movement, such as random forests and hierarchical clustering; supervised by Prof. Maurizio Mancini
- Technologies: Python (Pandas, Numpy, Scikit-Learn), Qualisys motion capture system

Projects

NotiPlex, an Android multi-device notification framework   October 2017 – March 2018
- In collaboration with Microsoft, Inria, UCL
- Team Leader of development team tasked with developing a notification management application
- The application enables users to create configurations specifying which device should receive incoming notifications based on time and location
- Technologies: Android (Java), Firebase, Node.js

VR Health Living   January – May 2017
- In collaboration with Imperial College Healthcare NHS Trust and UCL
- Developed a virtual reality dancing application to encourage children between the ages of 8-12 to do physical activity within a context of gamification
- The application was designed to be portable and was deployed with support for Samsung VR
- Technologies: C#, Unity, Samsung VR

Awards and Certificates

LearnHack 4.0 Hackathon   November 2017
- LabNotes Challenge Winner
- Created lab notebook to help researchers log their data and notes for future use in research papers using React and Node.js

Bank of America Trading Application Hackathon   November 2017
- Third place
- Developed front-end and back-end for a trading application using Google Trends and Aylien News APIs

Machine Learning course by Andrew Ng, Stanford University Online   December 2016 – March 2017
- Topics covered: Linear and logistic regression, regularization, neural networks, SVM, PCA, k-means clustering, anomaly detection, recommender systems

Leadership and Service

Outreach Co-Director, Students' Union UCL Technology Society   January 2018 – June 2018
- Actively contributed in organizing software engineering-related talks and events involving external companies such as Next Jump and KPMG.

Hackstart: Teaching basic Machine Learning   October 2017
- Hosted interactive workshop using Python and Jupyter to teach Numpy and basic unsupervised machine learning techniques (K-means algorithm) to both high school and university students with non-technical backgrounds

Skills

Programming Languages: Proficient in Python, Java, C, JavaScript; Familiar with Kotlin, C#, C++, TypeScript, Haskell, Matlab
Web Development: React, Node.js, HTML, CSS
Frameworks and Tools: Android, TensorFlow, Unity, EyesWeb, Git, Docker
Software Libraries: Keras, Scikit-learn, Numpy, Pandas
Operating Systems: GNU/Linux (Ubuntu, Debian), Android, Microsoft Windows