
EDUCATION

- **The University of Manchester** Manchester, UK
MSc of Computer Science - Predicted First Class Degree Sept. 2016 – Jun. 2021
 - **Relevant Coursework:** Mobile Systems, Machine Learning, Distributed Systems, Software Engineering, Computer Graphics and Image Processing, Probabilities, Computer Architecture, Fundamentals of Databases.
 - **External Courses:** Digital Signal Processing(EPFL), Secure and Private AI Nanodegree(Udacity), Leadership in Action(UCIL)

WORK EXPERIENCE

- **Microsoft** Redmond, WA
Azure Cloud and Artificial Intelligence intern June 2019 - Sept 2019
 - **Project description:** Part of IoT&Edge team, working on integrating Azure EventGrid (Azure's event based communication system) with the IoT blob storage module, for offering developers the flexibility to move their applications from cloud to edge devices.
- **Twitter** Seattle, WA
Media Platform intern April 2019 - June 2019
 - **Project description:** Media Platform engineer, working on designing and implementing a performance measurement and error scribing framework for the media upload pipeline. Moreover, I have done experiments on using HEVC instead of H264 for UGC and assessing the quality improvements and bitrate reduction.
- **Bloomberg LP** London, UK
Software Engineering placement Oct. 2018 - March 2019
 - **Project description:** Member of the Communication Channels Storage team, focused on distributed databases, the Terminal messaging system and large scale storage. The projects I contributed to include the LDAP system, designing and implementing APIs for other teams and improving whitelisting pipelines.
- **Twitter** London, UK
Media Client Infrastructure intern Jun. 2018 - Sept. 2018
 - **Project description:** Worked on designing and implementing looping videos using Http Live Streaming and mp4 codecs on iOS, focused on improving performance and reducing data usage. Moreover, I contributed on improving network measurements and increasing video on demand streaming quality for low bandwidth networks and data saving usage of the app.
- **Seers CRM** Bucharest, Romania
Software Engineering intern Jun. 2017 - Sept. 2017
 - **Project description:** Contributed to a web application which converts online forms into the official documents needed to start a new business from scratch, based on the legal requirements of Romania.

TECHNICAL EXPERIENCE

- **Machine Learning:** Worked on small supervised learning projects, such as plant recognition, spam detection, based on simple approaches such as KNN, Linear Regression, Logistic Regression or Naive Bayes classifier.
- **MP3 Encoder:** Implemented various features of an MP3 encoder, such as subband filtering, the quantizer and the general filter.

AWARDS AND ACTIVITIES

- **AI Privacy and Security scholarship:** Received Facebook's Private and Secure AI scholarship: 2019.
- **ACM-ICPC:** Qualified for North West European Regional Competition: 2017.
- **Bloomberg CodeCon:** World final stage qualification: 2016.
- **National Mathematics Olympiad:** Two consecutive participations: 2014, 2015.

SKILLS

- **Programming languages:** Java(Good), Python(Medium), Javascript(Medium), Scala(Beginner), Swift(Beginner), C++(Beginner), C(Beginner), Objective C(Beginner).
- **Technologies:** Git, Phabricator, Docker, Azure, NumPy, Pandas, NodeJs, ExpressJs, Jupyter Notebook, Unix, SQL, Hadoop(beginner), FFMpeg(beginner), Presto, Jira, Tableau, EventGrid.
- **Other Skills:** Agile Methodology, Kanban, Teamwork, Time management, Problem solving, Data analysis, Presentation skills, Critical thinking, Task management, English(proficient), Romanian(native), Spanish(beginner).