

Tudor Ciurca

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EDUCATION

UNIVERSITY OF EDINBURGH

MSC ARTIFICIAL INTELLIGENCE
Expected August 2019 | Edinburgh, UK
Specialization in Machine Learning
and Natural Language Processing

UNIVERSITY OF BRISTOL

BSc(HONS) COMPUTER SCIENCE
2015-2018 | Bristol, UK

"UNIREA" NATIONAL COLLEGE

MATHEMATICS AND INFORMATICS
BILINGUAL ENGLISH PATH
2011-2015 | Targu Mures, Romania
Baccalaureate Exam average: 9.96/10 –
top 1% nationwide

MODULES

POSTGRADUATE

Machine Learning and Pattern
Recognition
Accelerated Natural Language Processing
Machine Learning Practical
Probabilistic Modelling and Reasoning
Natural Language Understanding,
Generation, and Machine Translation

UNDERGRADUATE

Data Structures and Algorithms
Concurrent Computing
Symbols, Patterns and Signals
Machine Learning
Software Product Engineering
Image Processing and Computer Vision
Intro to High Performance Computing
Cloud Computing
Functional Programming

SKILLS

PROGRAMMING LANGUAGES

Competent
Python • C++ • C# • Java
Some experience
JavaScript • C • Matlab • Haskell

TECHNOLOGIES

PostgreSQL • pandas • Linux • git •
docker • HTML • CSS • \LaTeX • iPython
Jupyter Notebook

EXPERIENCE

PEXIP LTD. | SOFTWARE DEVELOPMENT INTERN

July 2018 – Aug 2018 | Reading, UK

- Developed data pipeline for analytics dashboard using Python, pandas, PostgreSQL.
- Automated workflow using Docker and Docker Compose to allow for easier and faster test-driven development.
- Performed scalability testing, improved caching and reduced the average page load time from ~20 seconds to sub-second response time.

BANK OF AMERICA MERRILL LYNCH | SUMMER TECHNOLOGY ANALYST

June 2017 – August 2017 | London, UK

- Internship in the Electronic Trading Technology department.
- Full-stack .NET web-development, using C# and knockout.js.
- Designed a UI for querying, filtering and exporting trading profile information; used by developers and business analysts.

ARKEVISTA LTD. | SOFTWARE DEVELOPER

June 2016 – Aug 2016 | Gloucester, UK

- Devised routing algorithms in order to predict maritime voyages across the globe using Python.
- Designed a custom visualization tool for plotting abstract voyage information.
- Wrote XML parser, in Python, which reveals all unique tree structures of an XML file.

PROJECTS

MYRIVERS | SOFTWARE PRODUCT ENGINEERING

October 2016 – May 2017 | University of Bristol, UK

- Android application to assist river conservation charities in managing pollution in rivers around the UK; app available in the Google Play Store.
- Back-end development in a team of 6, using Java for the client-side, Node.js and MongoDB for the server-side.
- Responsible for setting up a Linux box and deploying the Node.js app.

BAYESIAN OPTIMIZATION WITH GAUSSIAN PROCESSES... | DISSERTATION

October 2017 – May 2018 | University of Bristol, UK

- Bayesian Optimization framework developed in Tensorflow with Gaussian Processes, used to test a novel kernel - the Juxtaposition Kernel.
- Obtained similar results between the Standard GP and Juxta GP on benchmark 1D and 2D functions.

AWARDS

2017 Best Second Year Computer Science Group Project (myRivers)
2016 Qualification to the ACM-ICPC Northwestern Europe Regional Contest
2013 Silver Medal at the Romanian National Informatics Olympiad
various Other team and individual prizes at several international
and inter-county programming contests

TEACHING SUPPORT ASSISTANT

2017 Data Structures and Algorithms
2017 Mathematical Methods for Computer Science