

PERSONAL INFORMATION



Tasho Kjosev

 Am Balsberg 40, Kloten 8302, Switzerland

 +389 71638322 / +41 786819852

 tasho.kjosev@epfl.ch

 [kjosev.github.io](https://github.com/kjosev)

 Skype tase-kosev

Sex Male | Date of birth 23/12/1993 | Nationality Macedonian (Republic of Macedonia)

WORK EXPERIENCE

August 2017 – Present

Research Assistant, Applied Machine Learning

Oracle labs, Zürich (Switzerland)

- Health monitoring of network devices
- Detecting anomalous behaviour in log data
- Detecting anomalous behaviour in telemetry data
- Developing monitoring tools with Python

Business or sector Research and Development

April 2015 – April 2016

Software Development Engineer

HASELT, Skopje (Macedonia)

- Development of software and web solutions using .NET framework
- Involved in software architectures designs and prototyping
- Involved in both, front-end and back-end programming
- Working with mobile, web and hybrid applications
- Developing web services and RESTful APIs
- Analysing and researching various technologies needed for current and future projects
- Communicating and collaborating with partners and clients
- Analysing software requirements specifications and preparing project docs

Business or sector Web Development

February 2014 – February 2016

Mentor

Yahya Kemal College, Skopje (Macedonia)

- Introducing students to the basics of programming
- Teaching algorithms and data structures
- Preparing students for National Competition of Informatics in Macedonia

Business or sector Teaching and education

June 2014 – September 2014

Intern

Time.mk, Skopje (Macedonia)

- Development of Named Entity Recognition software
- Research on improving news clustering algorithm
- Research on improving news classification algorithm

Business or sector Research and Development

EDUCATION AND TRAINING

September 2016 – Present

Master of Science in Computer Science

Ecole Polytechnique Fédérale de Lausanne

- Grade: 5.52/6
- Core subjects: Pattern Classification and Machine Learning, Database Systems, Intelligent Agents, Distributed Algorithms, Distributed Information Systems

September 2012 – June 2016

Bachelor of Science (Information Science), sub-degree: Computer Science and Engineering

Faculty of Computer Science and Engineering, Skopje

- Grade: 9.68/10
- Graduated with honours
- Core subjects: Calculus, Discrete Mathematics, Probability and Statistics, Algorithms and Data Structures, Advanced Algorithms, Artificial Intelligence, Machine learning, Intelligent Systems, Intelligent Information Systems

August 2014 – October 2014

Competitive programming training

Netcetera, Skopje

- Advanced algorithmic problem solving skills
- Preparations for ACM-ICPC and IEEEExtreme

September 2008 – June 2012

High school, Natural sciences and Mathematics field

Jane Sandanski, Strumica

- Macedonian language and literature, Mathematics, English, French, Physics, Chemistry, Linear Algebra, Analytical Geometry, Programming

September 2004 – June 2010

English course

ABC Academy for Foreign Languages, Strumica

- English C1 level (as described by the Common European Framework of Reference for Languages)

PERSONAL SKILLS

Mother tongue(s)

Macedonian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1 or above	C1 or above	C1 or above	C1 or above	C1 or above
	TOEFL, C1 or above				
French	A1/A2	A1/A2	A1/A2	A1/A2	A1/A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

- Social skills**
- **Great communication skills** gained through my experience as both a software engineer working with clients and a mentor of high school students
 - **Great at teamwork** as shown from the many team competitions in which I have participated
 - Reliable, trustworthy, respectable and overall friendly person with a great sense of humor

- Organisational / managerial skills**
- **Leadership skills** as shown from successfully leading a team of 10 people for a university project

- Job-related skills**
- **Programming:** One year experience in web development with C#, ASP.NET, SQL, HTML, CSS and JavaScript, but also experienced in Java, C++ and Python
 - **Machine learning:** Experienced with building learning systems using a variety of techniques

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

- Good command of office suite (word processor, spread sheet, presentation software)
- Knowledge of document creation with LaTeX
- Basic understanding of Adobe Photoshop, Adobe Illustrator and other graphics editors
- Overall knowledge of computer systems and applications gained from years working in the IT field

- Other skills**
- Fast learner
 - Self-motivated
 - Guitar player

- Driving licence** Category B

ADDITIONAL INFORMATION

- Honours and awards**
- Graduated with Honours from the Faculty of Computer Science and Engineering in Skopje
 - Represented the EPFL at ACM ICPC SWERC 2016
 - Ranked 39 out of 2,477 Teams in the IEEEExtreme Programming Competition 9.0
 - Represented the University of Skopje at ACM ICPC SEER 2014
 - Won first place in "Web" category at Informatijada 2014
 - Won first place in "Algorithms" category at Informatijada 2014
 - Won "Best web" at Codefest 2014
 - Represented the University of Skopje at ACM ICPC SEER 2013
 - Won "Special honours" award from FCSE for exceptional achievements in third year of study
 - Won "Special honours" award from FCSE for exceptional achievements in second year of study
 - Won first place at Regional European BEST Engineering Competition, Skopje 2013
 - Won first place at Balkan European BEST Engineering Competition, Sofia 2013
 - Certificate of participation in the Macedonian Olympiad of Informatics 2012
 - Won second place in the Macedonian National competition in Informatics, 2012

- Certifications**
- Achieved TOEFL score of 107

Projects

▪ Privacy-preserving Decentralized Machine Learning on mobile devices

Developed a Machine learning algorithm that allows multiple agents, each with its own local dataset, to learn from each other's data, while still providing differential privacy guarantees.

▪ Movie Recommendation Engine

Used an ensemble of different techniques such as Matrix Factorization, User/Item-based Collaborative filtering and others to predict the missing ratings for movies by users.

▪ Higgs boson discovery from CERN data

Implemented a Logistic regression model with Feature selection and extraction to classify Higgs boson observations using Python.

▪ Website for aggregating blog posts

University project for aggregating blog posts from multiple sources using .NET MVC. Acted as a team leader and a solution architect.

▪ Facial Expression Detection

Used SVM to classify facial expressions of people based on coordinates of facial features.

▪ Named Entity Recognition system for the Macedonian language

Implemented a NER system for news articles in Macedonian using Python. It was the first system of its kind for the Macedonian language and was later presented at the University of Skopje.

▪ Object Detection and Tracking with NAO robot

Developed a functionality that enables the NAO robot to find and follow any symbol (given upfront) in its surroundings.

▪ Search Engine for Macedonian websites

Scraped all .mk domains and implemented Page rank and text based searching techniques in Python.