IVAN TISHCHENKO

Research Assistant

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in ivan-tishchenko   🐦 ivan_tishchenko   📍 Zurich, Switzerland

EXPERIENCE

Research Assistant
ETH Zurich, Computer Vision and Geometry Group

📅 July 2020 – Ongoing   📍 Zurich, Switzerland

- Conducting research in 3D Computer Vision and Deep Learning.
- Outperformed the state-of-the-art baseline by 14%.
- **Technologies:** Python, PyTorch

Software Engineer Intern
Swisscom

📅 Feb 2019 – Oct 2019   📍 Bern, Switzerland

- Developed an interactive visualization dashboard.
- Implemented API, UI, persistence and access control.
- The app is actively used by the operational and support teams.
- **Technologies:** Java, JavaScript, CI/CD, TDD, agile methodology

Software Engineer (part-time)
Astrivis

📅 Oct 2018 – Feb 2019   📍 Zurich, Switzerland

- Implemented network communication and caching logic.
- Designed a drag and drop UI feature for fusing 3D models.
- Adapted application's architecture to Fragments.
- **Technologies:** Java, Android development, Networking

Software Developer (part-time)
Interdisciplinary Centre for Security, Reliability and Trust

📅 Nov 2016 – Apr 2017   📍 Luxembourg

- Contributed to the initial framework for RoboCup 2017.
- **Technologies:** C++, Python, GNU/Linux

Software Developer Intern
Digital and Population Data Services Agency

📅 May 2016 – Jun 2016   📍 Helsinki, Finland

- Developed a prototype of Signature Creation Service for iOS.
- **Technologies:** Swift, iOS development, PKI

PROJECTS

- 📅 2020   Self-Supervised Scene Flow Learning (Python, PyTorch)
- 📅 2018   Hand Pose Estimation with CNNs (Python, TensorFlow)
- 📅 2018   Semantic Segmentation of Satellite Images (Python, Keras)
- 📅 2018   Analytics Platform for Instagram (Java, Spring Boot)
- 📅 2017   Middleware for a Cloud Distributed System (Java, NoSQL)

EDUCATION

M.Sc. in Computer Science
ETH Zurich

📅 Sep 2017 – July 2020

GPA: 5.39/6.0

Specialization:
- Computer Vision
- Machine Learning

B.Sc. in Computer Engineering
National Technical University of Ukraine "Kyiv Polytechnic Institute"

📅 Sep 2013 – July 2017

GPA: 4.82/5.0

SKILLS

C/C++   Python   Java   JavaScript

GNU/Linux   Git   CI/CD

Computer Vision   Machine Learning

PUBLICATIONS

📄 Conference Proceedings

- Tishchenko, Ivan et al. "Self-Supervised Learning of Non-Rigid Residual Flow and Ego-Motion". In: *2020 International Conference on 3D Vision (3DV)*. IEEE. 2020.

AWARDS

🎓 **Master Scholarship Programme**
ETH Zurich, Switzerland. Top 10% of Bachelor's degree programme.

🎓 **EUROEAST Academic Grant**
Two grantees out of all CS and EE Bachelor's students at NTUU "KPI".

🏆 **European Forum Alpbach Scholarship**
Interdisciplinary conference, 2d place economics essay competition.

LANGUAGES

Language	Proficiency
English	●●●●○
German	●●●●○
Ukrainian	●●●●●
Russian	●●●●●
Chinese	●○○○○