Najib Ghadri

Software Engineer

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Skills

Languages	Python, C/C++, CUDA, Java, JavaScript
Machine learning	Computer vision, Convolutional Neural Networks, Scene Understanding
	Frameworks : OpenCV, Tensorflow, PyTorch, Python tools (numpy, jupyter, pandas) and more
Graphics	Carla (Driving) Simulator, GPU programming, CUDA/OpenCL
Systems	Linux, ROS, RTOS, Git, Docker, CMake,
Others	Full-stack web development, Android, Databases (SQL, NoSQL), Cloud computing, Blockchain technologies
Spoken languages	Hungarian (native), English (fluent), Arabic (native), Spanish (intermediate)

Education

Budapest University of Technology and Economics

Master of Science in Computer Science — 2018 - 2020

- Thesis in Computer Vision: Scene Understanding with Energy-based models based on CNN synergy and stereo imaging
- Finishing Msc in Summer 2020
- Universitat Politècnica de València, Valencia, Spain — *Erasmus on 2019 Spring*

Budapest University of Technology and Economics

Bachelor of Science in Computer Science — 2014 - 2018

- Software Engineering and Development

Experience

Gambjo — *Budapest*

gambjo.com
Startup initation — *Sept. 2019 - Dec. 2019*

- I started a startup initiative with 5 other engineer friends of mine for a mobile social network, Gambjo. The goal is helping real social interactions by making it easy to organize and discover events and communicate for people wanting to go out and have fun. We participated in the Hiventures Startup Campus incubator program, however we had to find out that it is apparently not our time yet.

Morgan Stanley — *Budapest*

Software Engineer — *Mar. 2018 - Aug. 2019*

- In an agile development team of 7, I worked on an internal web portal that helped the job of MS traders. My work included database design and management, Java server development, web front-end development and management of these different environments.
- Took part in Global Volunteer Month where I taught elementary school students coding during the BME kid's unversity

Argonsoft — *Budapest*

Software Engineer Intern — *June. 2017 - August. 2018*

- Worked on a web portal's Java backend

Projects

Scene Understanding with Energy-based models based on CNN synergy and stereo imaging

- In MSc thesis work I used modern CNNs suchs as YOLOv3, R-CNN to perform object detection, semantic segmentation, and additional feature detections with classical methods to achieve lane detection such as Hough transform and perform object tracking and distance estimation by using stereo imaging. With the output combination of these algorithms then I will perform "self-supervised" deep-learning with continuous energy-based method to learn the latent space of generic driving scene scenarios. Read more

Next Web

- In this research I discuss possibilities of improving the world wide web such as decentralization of central authorities (like DNS and CAs) and validity, security of information and digital identity through distributed ladder technologies and Self-Sovereing Identity, and linked-data and interoperability of web, mobile and desktop applications