Najib Ghadri

Software Engineer

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Skills

Languages	Java, JavaScript, Python, C/C++
Machine learning	Computer vision, Convolutional Neural Networks, Scene Understanding
	Frameworks : OpenCV, Tensorflow, PyTorch, Python tools (numpy, jupyter, pandas)
App and web dev	Android, Flutter, Node js, Express, Koa, React JS, Flutter framework, SQL, PostgreSQL, NoSQL, MongoDB, Redis
Others	Git, Linux, Docker, AWS VM management, Blockchain technologies, CMake,
	Carla (Driving) Simulator, GPU programming, CUDA/OpenCL
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
- 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

Projects

QuaranTime.io

https://quarantime.io *2020 April - May*

- QuaranTime.io is a face-time gaming site I built myself where you can play Activity with your friends on videochat! The site is built with a node backend and React js frontend, hosted on AWS. Check it out: https://quarantime.io/

Driving Scene Understanding in Simulation with Stereo RGB imaging and CNN synergy

https://najibghadri.com/msc-thesis *2020 February - May*

- MSc. thesis work, I used modern CNNs such as Mask R-CNN to perform object detection and instance segmentation, and additional feature detections with classical methods to achieve lane detection such as Hough transform and perform object tracking while performing distance estimation using stereo imaging. With the output of these I perform the detection. The result 3D visualization can be seen at: https://najibghadri.com/msc-thesis/

Gambjo

gambjo.com *2019 September - ongoing*

Startup initation

- Gambjo is a social network application with the goal of boosting real social interactions by making it easy to organize and discover events around you and find new people. Gambjo is built with a Nodejs backend, PostgreSQL database and Flutter cross-platform application framework, hosted on AWS

Next Web

https://najibghadri.com/next-web/ *2019*

- 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, linked-data and interoperability of web, mobile and desktop applications.

Experience

Morgan Stanley

Budapest

Software Engineer

2018 Mar. - Aug.

- In an agile development team of 7, I worked on an internal web portal that helped the job of traders at Morgan Stanley. My work included database design and management, Java Spring-based server development, front-end web development.
- Took part in Global Volunteer Month where I taught elementary school students coding during the BME Kid's University

Argonsoft

Budapest

Software Engineer Intern

2017 June. - Aug.

- Worked on a web portal's Java backend