

# VASILE VILVOIU

## Senior Software Engineer

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## EXPERIENCE

### Research Engineer

#### SIGNORD Engineering (self employed)

[Jul 2018 - Ongoing](#) [Bucharest, RO](#)

- Field of work: Computer vision and image processing
- Technologies: C, C++, OpenCV, Python, Tensorflow
- Facial recognition based on near infrared frontal images of subjects.
- High-density, efficient 3D facial reconstruction for recognition purposes.
- Fast ID document tracking for low-performance smartphones.

### System Development Engineer

#### Amazon Web Services

[Dec 2017 - Jul 2018](#) [Bucharest, RO](#)

- Field of Work: Kernel and Operating System
- Technologies: C++, Python, Elasticsearch, AWS
- Fleet hypervisor/kernel crash aggregator system

### Team Lead

#### Arnia Software

[Jan 2016 - Dec 2017](#) [Bucharest, RO](#)

- Field of work: Computer vision and image processing
- Technologies: C, C++, OpenCV, OpenCL, MATLAB, Python, Tensorflow
- Environment comprehension from monocular video sources for autonomous driving
- Blind spot vehicle detection system

### Software Engineer

#### Arnia Software

[Oct 2011 - Dec 2015](#) [Bucharest, RO](#)

- Field of work: RDBMS development, open source project (CUBRID)
- Technologies: C, Linux
- Implementation of window functions
- Optimized in-memory aggregate function evaluation
- Lock-free data structures framework implementation

### Software Developer

#### Axel Soft SRL

[Aug 2009 - Mar 2011](#) [Bucharest, RO](#)

- Field of work: SAP BusinessOne localization and add-on development
- Technologies: Microsoft .NET Framework, Microsoft SQL Server, SAP BusinessOne, CrystalReports

## OSS/OSHW

specgram

MIT License

libecbor

MIT License

libsstv

MIT License

cat-a-hack

CC-BY-SA 4.0

## SKILLS

C

C++

Python

Computer Vision

DSP

Compilers

Parallel Computing

Storage Systems

## EDUCATION

B.Sc. in Automation and Applied Informatics

Polytechnic University of Bucharest

[2008 - 2012](#)

## REFERENCES

Prof. Marius Leordeanu

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[Poly. University of Bucharest](#)

Professor of Computer Vision and Robotics. Former industry collaborator.

Eugen Stoianovici

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[NuoDB / Dassault Systems](#)

Senior software engineer at IBM DB2 and NuoDB. Former colleague.