Stanislav Arnaudov

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Karlsruhe, Germany

Education

Karlsruhe Institute of Technology — Karlsruhe, Germany
Master of Science in Informatics — *Expected Sep 2020*

Relevant Coursework: Image processing, Computer Vision, Machine Learning

Karlsruhe Institute of Technology — Karlsruhe, Germany
Bachelor of Technology in Informatics; Average grade: 1.6 — *Sep 2015 - Sep 2018*

Relevant Coursework: Linear Algebra & Design of Algorithms and Data Structures, Operating Systems, Software Engineering, Cognitive Systems, Computer Graphics

Skills

- **Languages**: C++, Python, Java, JavaScript\CSS\HTML, SQL, Emacs-Lisp
- **Technologies**: Git, Cmake, make, g++, Robot Operating System(ROS), RabbitMQ, JavaFX/Java-Swing, JUnit, Maven, Frontend (AngularJS, VueJS), Backend (NodeJS, Express), LaTeX, Emacs Org-mode, UML
- **Libraries**: TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, Jupyter, OpenCV, PCL (Point Cloud Library)

Experience

Fraunhofer IOSB — Karlsruhe Germany
Software Engineer\Research Assistant — *Sep 2017 - Present*

- **Image Processing**: Working with OpenCV, Implementing detection and tracking of laser point
- **Point Cloud Processing**: Working with PCL, processing and using point cloud information for

Karlsruhe Institute of Technology — Karlsruhe Germany
Teaching Assistant in Linear Algebra — *Sep 2016 - Mar 2017*

- **Responsibilities**: Checking homeworks and giving a class once a week.

Karlsruhe Institute of Technology — Karlsruhe Germany
Teaching Assistant in Algorithms and Data Structures — *Apr 2017 - Jul 2017*

- **Responsibilities**: Checking homeworks and giving a class once a week.

Karlsruhe Institute of Technology — Karlsruhe Germany
Volunteer — *Jul 2018*

- **Responsibilities**: Helping with the organization of the EGSR 2018 computer graphics conference.

Projects

- **Bachelor Thesis**: Creating and Evaluating Stochastic Regression Models on the Basis of Heterogeneous Sensor Networks for Air Pollution
  - Implementing stochastic regression models with Tensorflow, Edward and GPFlow.
  - Evaluating stochastic regression models on the basis or proper scoring rules
- **Practical Course in Software Engineering**: NGram++
  - Working in a team of 5 people.
- **Practical Course in Applied Geometry**: C++ Geometry Library
  - Modeling, analysis, reconstruction and simulation of geometric data.
- **Course Project**: Smart Homeworks
  - Single page application written in VueJS.
- **Co-Maintainer of an Emacs package**: Neotree
  - Neotree - tree file browser for Emacs.
  - Fixing bugs, implementing new features and helping with issues on the GitHub repository.

Additional Experience & Achievements