David Stutz

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Profile

Inspired by the elegant and simultaneously versatile world of computer science, I am a student eager to learn more in all its different disciplines. I focus on computer vision and machine learning – combining the depth of theory with the most interesting applications of today's world.

Planning a career in academia, I am not only passionate about acquiring new knowledge, but also motivated to share this knowledge with other professionals as well as future generations.

Academic Training

RWTH Aachen University, Aachen, Germany, 2011 – present
Master of Science in Computer Science, expected September 2016
Bachelor of Science in Computer Science, with Distinction, October 2014
>   Thesis: "Superpixel Segmentation using Depth Information"
>   Focus: Computer Vision, Machine Learning, Data Mining
>   Minor: Mathematics, in particular Numerical Analysis

Gymnasium Calvarienberg, Ahrweiler, Germany, 2002 – 2011
>   Abitur
>   Majors: Physics, Mathematics, English, Geography

Awards and Scholarships

Hans Hermann-Voss Scholarship, 2015
RWTH Aachen University Education Fund (Germany Scholarship), 2014 – present
RWTH Aachen University Dean's List, 2013
Participation in the Selection Seminar of the German National Academic Foundation, 2013
RWTH Aachen University Dean's List, 2012
careerloft.de Scholarship, October 2012 – present
e-fellows.net Scholarship, May 2011 – present
German Physical Society Book Prize for Outstanding Merits in Physics, 2011
German Junior Academy for the Promotion of Young Talents, 2005

Teaching

Tutor, "Fundamentals of Mathematics II", RWTH Aachen University, Aachen, Germany, April 2014 – September 2014
>   *Responsibilities include presenting exercises to a group of 30 students and grading weekly homework.*

Tutor, "Calculus for Students of Computer Science", RWTH Aachen University, Aachen, Germany, October 2013 – March 2014
>   *Responsibilities include presenting exercises to a group of 50 students and grading weekly homework as well as the final exam.*

Work Experience

Web Developer, RS Computer, Sinzig, Germany, January 2009 – March 2014, October 2014 – present
> *Development of a Content Management System including theme and plugin development for Wordpress, CMSimple and xtCommerce. Design, development and maintenance of individual software for medium-sized companies.*

Student Employee, Fraunhofer Institute for Communication, Information Processing and Ergonomics (FKIE), Wachtberg, Germany, August 2012 – September 2012
> *Data visualization using JavaScript and d3.js.*

Student Employee, Fraunhofer Institute for Communication, Information Processing and Ergonomics (FKIE), Wachtberg, Germany, March 2012
> *Plugin development for Piwik (Open Source Web Analytics).*

Student Employee, Fraunhofer Institute for Communication, Information Processing and Ergonomics (FKIE), Wachtberg, Germany, May 2011 – July 2011
> *Web development using PHP and Javascript based on a HMVC framework including a database connection to a MySQL database.*

Intern, Fraunhofer Institute for Communication, Information Processing and Ergonomics FKIE, Wachtberg, Germany, October 2009
> *Introduction to C++ and 3D modeling using Blender.*

Service and Memberships

Student Member, German Informatics Society, Germany, 2014 – present
Volunteer, Conference on Software Engineering, Aachen, Germany, 2013
Member, Society of Friends of the Saarland Mandolin Orchestras, Germany, 2013 – present
Member, Saarland Mandolin Orchestra, Germany, 2012 – present
Member, German Plucked String Federation, Germany, 2012 – present
Guitar Teacher, Music School Steps on Stage, Sinzig, Germany, 2011
Member, Saarland Mandolin Youth Orchestra, Germany, 2006 – 2008

Interests and Activities

Classical and electrical guitar with 16 years of experience including several prizes from the music competition "Jugend musiziert" for classical guitar ensemble, several guitar and mandolin seminars arranged by the German Plucked String Federation, teaching experience, and memberships in various mandolin orchestras, 1998 – present

Web development and open source including plugins for the content management system CMSimple, documentation for the digital signage software Xibo, modules for the PHP framework Kohana, plugins for Twitter Bootstrap, and JavaScript-based projects on password security, 2009 – present

Massive Open Online Courses (MOOCs), including courses on cryptography, game theory, social network analysis, and linear and integer programming, 2012 – present

Grades are given in their original grading system and translated in parentheses. Documents proving the above claims and letters of recommendation from each job are given on request.