

Julian Blank

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EDUCATION

MICHIGAN STATE UNIVERSITY

East Lansing, MI, USA

PHD IN COMPUTER SCIENCE

Since 08/2017

GPA: 4.0/4.0

OTTO-VON-GUERICKE UNIVERSITY

Magdeburg, SA, Germany

MS IN COMPUTER SCIENCE

05/2014 - 05/2016

GPA: 1.0 (ECTS)

OTTO-VON-GUERICKE UNIVERSITY

Magdeburg, SA, Germany

BS IN BUSINESS INFORMATION SYSTEMS

10/2010 - 05/2014

GPA: 1.3 (ECTS)

SKILLS

PROGRAMMING

Python • Matlab • Java • Java EE

C/C++ • C# • R • SQL • Javascript

HTML • CSS • Bash

FRAMEWORKS

NumPy • PyTorch • Angular

Django

OTHERS

Linux • Git • SVN • \LaTeX

LANGUAGES

German (native) • English (C1)

Spanish (A1) • Latin

Ancient Greek

INTERESTS

Traveling and Hiking • Volleyball

Basketball • Board Games

Food & Cooking

LINKS

Google Scholar:// [Julian Blank](#)

Github:// [julesy89](#)

Github:// [msu-coinlab](#)

LinkedIn:// [in/julian-blank](#)

Xing:// [Julian_Blank](#)

PROFESSIONAL EXPERIENCE

Authorized to work in the United States

FORD MOTOR COMPANY | RESEARCH ASSISTANT

08/2017 - 12/2018, East Lansing, MI, USA

Researcher under a Ford Michigan State University Alliance Project with the focus on multi-objective design optimization of cylinder head water jacket

COMPLEX GMBH & CO. KG | SOFTWARE DEVELOPER

12/2016 - 06/2017, Aschaffenburg, Bavaria, Germany

Full stack developer for an innovative large-scale business application developed with Java Enterprise Edition

MICHIGAN STATE UNIVERSITY | RESEARCH ASSISTANT

08/2015 - 01/2016, East Lansing, MI, USA

Research assistant in evolutionary multi-objective optimization at the Computational Optimization and Innovation (COIN) Laboratory supervised by Professor Kalyanmoy Deb

Q-FIN GMBH | SOFTWARE DEVELOPER - INTERN

11/2013 - 03/2014, Magdeburg, SA, Germany

Software developer for a financial consulting software which automates regression testing for software migration

OTTO-VON-GUERICKE UNIVERSITY | RESEARCH ASSISTANT

06/2011 - 06/2013, Magdeburg, SA, Germany

Developing and maintaining educational material for SAP

PASS CONSULTING GROUP | TECHNICAL SUPPORT - INTERN

09/2009 - 10/2009, Aschaffenburg, BV, Germany

Onsite support for a company with around 70 employees

TEACHING EXPERIENCE

FUNDAMENTALS OF INFORMATION TECHNOLOGY

MICHIGAN STATE UNIVERSITY, GRADUATE TEACHING ASSISTANT

08/2019 - 12/2019 | East Lansing, MI, USA

Teaching assistant for the basics of Python. The responsibilities included helprooms, grading, proctoring, projects and preparation of exams.

COMPUTER ORGANIZATION AND ARCHITECTURE

MICHIGAN STATE UNIVERSITY, GRADUATE TEACHING ASSISTANT

01/2019 - 05/2019 | East Lansing, MI, USA

Teaching assistant for the theory of circuits and coding in assembly language. The responsibilities included helprooms, grading and proctoring.

DATA WAREHOUSE ARCHITECTURE

OTTO-VON-GUERICKE UNIVERSITY, GRADUATE TEACHING ASSISTANT

10/2014 - 01/2015 | Magdeburg, SA, Germany

Teaching assistant for data warehouse architecture focusing on database models, replication strategies and data analysis.

CERTIFICATES

SUMMER FELLOWSHIP

05/2019 - 08/2019

Fellowship by the Computer Science
Department of Michigan State University.

TOEFL

01/2017

Total: 109/120 points

Reading 27 • Listening 28 • Speaking 27
Writing 27

DEUTSCHLANDSTIPENDIUM

04/2014 - 04/2016

A scholarship provided by the
government of Germany to support to
high-achieving and committed students.

SCHOLARSHIP OF GERMAN ACADEMIC EXCHANGE SERVICE

08/2015 - 01/2016

Scholarship for students to gain to study
abroad experience.

SAP CERTIFIED ASSOCIATE BUSINESS FOUNDATION

03/2013

The SAP TERP10 certificate shows
knowledge of integrative business
processes, such as order-to-cash or
purchase-to-pay.

ACTIVITIES

PROGRAM COMMITTEE

EMO 2019 • GECCO 2019
EMO 2021

REVIEWER

EMO 2019 • ICSE 2019

Swarm and Evolutionary Computation
Journal

COMPETITION

Competitions Organizer: Traveling Thief
Problem

MENTOR

Supervised multiple undergraduate
research assistants

Mentored freshmen transitioning into
university

Supported an international student in
settling down and transitioning into the
Otto-von-Guericke university

SOFTWARE

PYMOO | PYTHON

pymoo.org

This framework provides state of the art single, multi and many-objective
optimization algorithms and test problems. Moreover, features related to
multi-criteria visualization and decision making are available.

PYSAMPLING | PYTHON

A toolkit which provides methods to randomly or pseudo-randomly sample
a point-set in an N -dimensional space.

PYDACEFIT | PYTHON

A Python clone of the popular DACEfit toolbox originally developed in
MATLAB.

SMARTGROUPS | TYPESCRIPT

An application to intelligently assign individuals to a group based on each
person's personal preferences with the goal to maximize the global
satisfaction.

2048 | JAVA

A clone of the well-known 2048 game written in Java. The main focus was
to implement and evaluate several game bots in order to maximize the final
score.

ID3/C4.5 | PYTHON

Implementation of two popular decision tree algorithms which are known
to be a powerful tool to extract rules form data.

CHIMERGE | C++

An algorithm that aims to discretize a list of continuous values in a
bottom-up manner with respect to a class label.

PUBLICATIONS

Investigating the Normalization Procedure of NSGA-III

Blank J, Deb K and Roy P, 2019, EMO2019

Trust-Region Based Multi-objective Optimization for Low Budget Scenarios

Roy P, Hussein R, Blank J and Deb K, 2019, EMO2019

Solving the Bi-objective Traveling Thief Problem with Multi-objective Evolutionary Algorithms

Blank J, Deb K, Mostaghim S, 2017, EMO2017

In-Depth Analysis and Characteristics of the Traveling Thief Problem Master thesis

Blank J, Deb K, Mostaghim S, 2016

Evaluation of Rule-based Classifiers for an Application to generate Error Rules from Large Data Sets

Bachelor thesis

Blank, J, Kruse R, 2014