DANIEL TISCHNER

Software Engineer

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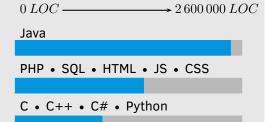
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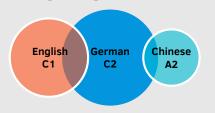
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Programming



Languages



Education

2016 - Present M. Sc., Computer Science

University of Freiburg, Germany

2012 - 2016

B. Sc., Computer Science (GPA: 1.9)

University of Freiburg, Germany

Experience

Oct 2016 -Present

Tutor

University of Freiburg, Germany

- Course Information Retrieval Students study, create and optimize typical functionalities of modern search engines
- Course Algorithms and data structures Students learn all kind of typical data structures and learn how to analyze algorithms
- Course System Design Project Students need to build and program a robot that is able to fulfil several given tasks, organization of a competition

Nov 2008 -Present

Administrator & Content Creator

FreewarWiki, Online

- Development of automated bots and scripts that execute recurring tasks, database management, creation of scripted templates to assist inexperienced user in content creation
- Extensive documentation of game elements and content
- Inspection, correction and improvement of contributions

Nov 2014 -Dec 2015

Board & Webadmin

Gruppe W, Online

- · Web development, performance improvement, development of automated web-integrated management software to ease workflow of all members
- · Human resource management, project management, planning and giving conferences, mediator
- · Development of modifications for ArmA 3, creation of 2D artwork and video editing

Mar 2007 -Jul 2012

Lead Programmer & Artist

Tales of Freewar Team, Germany

- Programming a RPG using the game framework RM2k3, responsible for game logic, implementing story, levels, conversations and battle logic
- Creation of 2D Art and sound editing, design and draft of maps

Awards

Jan 2017

SV-COMP 2017: Gold in Overall

ETAPS/SV-COMP

• The competition compares state-of-the-art tools for software verification with respect to effectiveness and efficiency. The competition consists of two phases: a training phase and an evaluation phase.

Oct 2016

RERS Challenge 2016: Gold in Overall

 The RERS Challenge provides a wealth of problems of increasing complexity, the more involved of which will probably be beyond any individual state-of-the-art method or tool. Characteristic for RERS is its wide scope, which addresses not only source code analyzers. but also (model-based) testers and (test-based) modelers, and in particular Free stylers.

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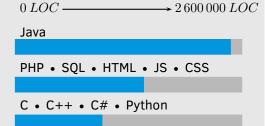
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Programming



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Publications & Preprints

Mar 2017 Minimization of Visibly Pushdown Automata
Using Partial Max-SAT

Mar 2016 Minimization of Büchi Automata using Fair Simulation Preprint arXiv

Projects

Dez 2015 - ULTIMATE

Present

program-analysis, model-checking, reachability, termination

Development, implementation, analysis and benchmarking of algorithms to generate random finite word, infinite word, nested word and tree automata (FA, NWA, TA) and also algorithms to minimize them

TACAS 2017/Springer

Apr 2016 -

Present

api, selenium, mmorpg

Sparkle

 Creation of a robust Selenium driven API for a browser embedded MMORPG which uses web-crawling mechanisms.

Jun 2016 - Mem-Eater-Bug

Apr 2017

jna, memory-manipulation, code-injection, windows-api

- Familiarization with security technologies and reverse engineering
- Providing an API which is capable of hooking onto other processes in order to provide memory manipulation methods and the possibility to inject foreign code

Apr 2014 - Antigen

Feb 2015

game, real-time-strategy, game-design, scrum

- In a team of 5 develop a strategy game from scratch using Scrum as software development managing framework
- Draft and design of an idea for a real time strategy game, creation of a detailed game design document
- Implementation of the game, primarily its logic and fast collision detection solutions

May 2017 - TreeFlood

Aug 2017

parallel-computing, shared-memory, graph-algorithms, exploration

- Study and implementation of an algorithm which distributedly explores unknown tree graphs
- Creation of a demo GUI that step wise shows how the algorithm works, present the algorithm in a conference

May 2017 - Parbot

Jul 2017

chatbot, selenium, api, service

- Development of a robust chatbot service which is able to recover from errors
- Implementation of a robust client which uses the chatbot service to automatically interact with users of a browser embedded MMORPG