DANIEL TISCHNER

Software Engineer, 29





+49 211 15824734



daniel.tischner.cs@gmail.com



/in/daniel-tischner



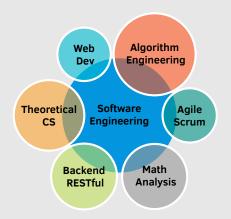
Zabuzard



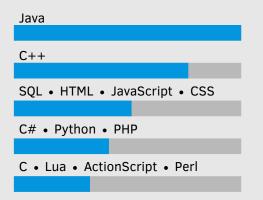
2411243/Zabuzard 19,451 Rep. • 7 • 42 • 64

Skills

Overview



Programming

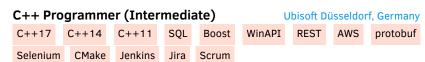


Profile

- 9 years of professional programming experience, 13 in total
- Master in Java, expert in C++ and intermediate Fullstack knowledge
- Math enthusiast with large background in theoretical CS and analysis
- Passionate teacher, top user on StackOverflow, top helper on Together Java
- · Strong academic background with focus on algorithm development and analysis

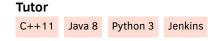
Experience

Nov 2018 -Present



- Expert on all game download and upload topics in the companies game launcher (*Ubisoft Connect/Uplay*), including
 - command-line tool to upload games
 - revamping the patching system (based on FastCDC)
 - integrating a new progressive download technology
 - tools for savegame management and migration
- Technical consultant for Selenium based automation tests
- Contact for partners for technical questions (Google, Amazon, Tencent, Epic Games, Denuvo)
- Recruitment CVs, interviews, test reviews, onboarding, mentoring
- Attending various leadership trainings

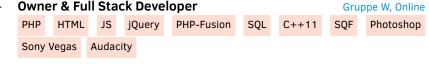
Oct 2016 -Nov 2018



University of Freiburg, Germany

- Assisting students understanding the contents of courses, organization of weekly meetings
- · Courses:
 - Programming in C++
 - Information Retrieval
 - Algorithms and data structures
 - System Design Project

Nov 2014 -Dec 2015



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

Education

2016 - 2018 M. Sc., Computer Science

University of Freiburg, Germany

2012 - 2016 **B. Sc., Computer Science** (GPA: 1.9)

University of Freiburg, Germany

Technologies -

Java

Gson, Jackson, Selenium, JSoup, Apache HttpComponents, Swing

JUnit, Logback, SLF4J, Log4j, Checkstyle,

JNI, JNA, JMH, JProfiler,

JDBC, Hibernate, OneBusAway, Osm4j, Tomcat,

Apache Commons, Guava, protobuf, fastutil, Trove, Google Collections, Eclipse Collections,

JWBF, detectlanguage, JavaILP

Spring

Boot, Framework, Data, Security, Session, Batch, Web Flow, Web Services, Reactor, WebFlux, Cloud, Actuator, Hystrix

Frontend

AngularJS, Knockout, jQuery, Thymeleaf, Leaflet, PHP-Fusion

C++ • C#

Boost, WinAPI, VSProfiler, Qt, XNA, MonoGame

Databases

MySQL, SQLite, InfluxDB, NoSQL, H2, MariaDB

Networking

TCP, UDP, HTTP, HTTPS, FTP, AWS, REST, JSON, protobuf

IDEs

Intellij, Eclipse, Visual Studio, VSC

Versioning

Git, SVN, Perforce, GitHub, GitLab, Git-Kraken, SourceTree, P4Merge, WinMerge

Build Management

Maven, CMake, Conan, Ant, Jenkins, SonarQube, Resharper, Checkstyle

Organization

GitLab Issues, Jira, Confluence, Toggl, Grafana, Kibana, SmartRecruiters, Kee-Pass

Communication

Slack, Discord, Skype, MS Teams, MS Outlook

Image • Video

Photoshop, PhotoFiltre, Gimp, OBS Studio, Sony Vegas, Dxtory, Audacity

Awards

Jan 2017 SV-COMP 2017: Gold in Overall

ETAPS/SV-COMP

 Yearly international competition on Software Verification, comparing state-of-the-art tools with respect to effectiveness and efficiency.

Oct 2016 RERS Challenge 2016: Gold in Overall

RERS / ISoLA'16

 Challenges revolving around unsolved problems on the topic of Source Code Analysis, model-based testing and test-based modeling. Directly contributing to global research.

Publications

Sep 2018 Multi-Modal Route Planning in Road and

Transit Networks

Preprint arXiv

Mar 2017 **Minimization of Visibly Pushdown Automata**

Using Partial Max-SAT

TACAS 2017/Springer

Mar 2016 Minimization of Büchi Automata using Fair Simulation Preprint arXiv

Projects (12 of 58)

Jul 2020 - FastCDC4J

github/FastCDC4J

Aug 2020

Java 14 Maven gnuplot

 Highly customizable implementation of a state-of-the-art solution for data deduplication and patching

Nov 2019 - M

Maglev

github/Maglev

Nov 2019

Java 9 Maven

 Sophisticated and customizable library for solving various shortest path problems using Module-Dijkstra, ALT and A*

Nov 2019 -Nov 2019

Closy

Java 9 Maven gnuplot

github/Closy

Compact library for nearest neighbor computation based on Cover Trees

Apr 2018 -Aug 2018
 Cobweb

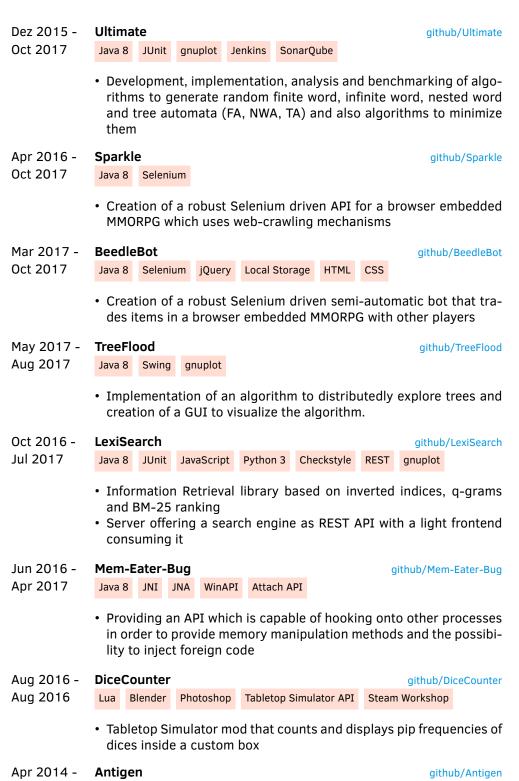
 Java 9
 Gson
 JUnit
 REST
 JDBC
 SQLite
 Logback
 SLF4J

 Apache Commons
 Ant
 AJAX
 jQuery
 Leaflet

- Development of a backend for a multi-modal journey-planner
- Research, implementation, optimization and benchmarking of shortest path algorithms
- Processing OSM, GTFS and real-time data on huge traffic-networks

Languages -





C# XNA MonoGame Nuclex C5 Scrum

Feb 2015

- 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