DANIEL TISCHNER

Software Engineer, 30





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Zabuzard **■**59 **•3**4 **★**137



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Profile

- 8 years of professional programming experience, 12 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

Sep 2021 -Java Programmer (Senior) Q2WEB, Germany Present Java 11 **JBoss Drools** PostgreSQL **Apache Camel** Apache Kafka Oracle DB REST SOA Maven Jenkins Redmine Mantis

- Development of custom software and services, as well as consulting for international clients in the telecommunication sector
- Drool-rules based assistant software for planning network changes, such as which antennas have to be changed for rolling out 5G
- Maintenance and enhancement of old services revolving around serving and synchronizing data from several client databases

Nov 2018 - C++ Programmer (Intermediate)

Aug 2021

C++20

C++17

C++14

C++11

SQL

Boost

WinAPI

REST

AWS

protobuf

Selenium

CMake

Jenkins

Jira

Scrum

- 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 and leading small teams

Oct 2016 - **Tutor** University of Freiburg, Germany Nov 2018 C++11 Java 8 Python 3 Jenkins

- 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 - Owner & Full Stack Developer Gruppe W, Online

Dec 2015 PHP HTML JS jQuery PHP-Fusion SQL C++11 SQF Photoshop

Sony Vegas Audacity

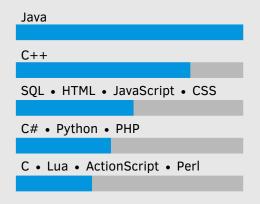
- Web development, performance improvement, development of automated web-integrated management software to ease workflow of all members
- · Human resource management, project management, mediator
- Development of modifications for ArmA 3, creation of 2D artwork and video editing



Overview



Programming



Languages -



Education

2016 - 2018 M. Sc., Computer Science

University of Freiburg, Germany

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

University of Freiburg, Germany

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 (11 of 59)

Sep 2021 -**TJ-Bot** Present

github/TJ-Bot Java 17 JDA Discord Gradle JUnit Mockito SonarQube **Spotless**

SOLite Flyway j00Q Log4j 2 SLF4J jib

docker Hetzner Kanban

· Leading and administrating the development of a community Discord-Bot

· Creation and development of the underlying system and main architecture, as well as being the main contributor for command and logic programming

Setup and maintenance of the CI/CD pipelines

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 -Maglev

Nov 2019

Java 9 Maven

github/Maglev

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

Technologies -

Java

Gson, Jackson, Selenium, JSoup, HttpComponents, Swing, JBoss Drools, JUnit, Mockito, Logback, SLF4J, Log4j, JNI, JNA, JMH, JProfiler,

JDBC, Hibernate, OneBusAway, Osm4j, Tomcat, Camel, Kafka, JDA,

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

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, PostgreSQL, Oracle DB, Flyway, j00Q

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, Gradle, CMake, Conan, Ant, Jenkins, docker, jib, SonarQube, Resharper, Checkstyle, Spotless

Organization

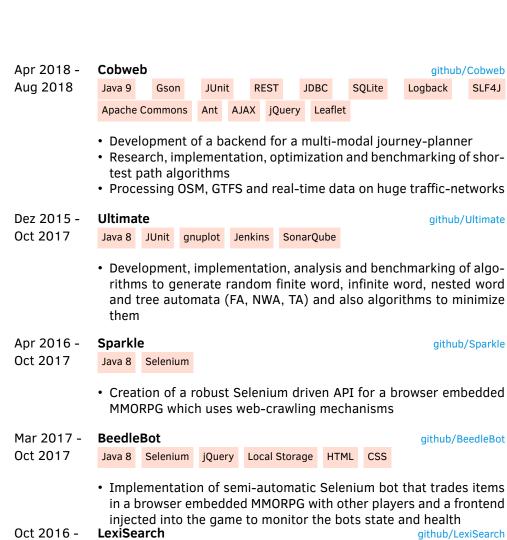
GitLab Issues, Jira, Confluence, Redmine, Mantis, Toggl, Grafana, Kibana, SmartRecruiters, KeePass, ISO 9001

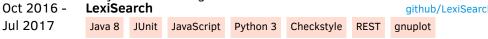
Communication

Slack, Discord, Skype, MS Teams, MS Outlook

Image • Video

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





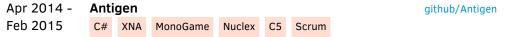
- Information Retrieval library based on inverted indices, q-grams and BM-25 ranking
- Server offering a search engine as REST API with a light frontend consuming it



 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



 Tabletop Simulator mod that counts and displays pip frequencies of dices inside a custom box



- 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