Jan-Christoph Kassing

jckassing.com

EDUCATION

• PhD Student in Computer Science RWTH Aachen University Aachen, Germany Oct 2022 – Expected 2026

Email: Kassing@cs.rwth-aachen.de

• Master of Science in Computer Science RWTH Aachen University; Grade: 1.2 Aachen, Germany Oct 2020 – Oct 2022

Oct 2020 – Oct 2022

• Bachelor of Science in Computer Science RWTH Aachen University; Grade: 1.4

Aachen, Germany Oct 2017 – Oct 2020

 \bullet Abitur (High School Graduation)

Soest, Germany
Oct 2009 - Oct 2017

Aldegrever Gymnasium; Grade: 1.7

EXPERIENCE

• App-Stone GmbH ₩

Soest, Germany

Founder & Shareholder

Mai 2018 - Present

- Foundation: Founded Capybara Software UG (haftungsbeschränkt) in 2018 together with 3 other colleagues from my high school. After 2 years we made enough income to found App-Stone GmbH. Both companies specialize in mobile app development (iOS or Android) on demand.
- Management: Managing and organizing the company of up to 10 Employees in different areas. This includes business decisions, e.g., deciding whether we need more employees or new software, performing job interviews, project management via Jira, project planning, and writing project offers including price calculation.

Software Engineer Mai 2018 – Present

- o Android Development: Development of mobile Android applications with Android Studio in Java.
- IOS Development: Development of mobile iOS applications with Xcode in Swift.
- **Hybrid Mobile Development**: Development of multi-platform applications with Flutter, which is a framework for building natively compiled, multi-platform applications from a single codebase.
- Server Development: Development of server backends with Django in Python. Servers are dockerized with Postgres as database and Gunicorn and Nginx for handling requests, serving static files for the backend, etc. Deployed on an AWS server.
- Testing and Error Fixing: Testing with JUnit and error detection and analysis via Crashlytics of Firebase.

• RWTH Aachen University

Aachen, Germany
Oct 2022 - Present

Research and Teaching Assistant

- Research Assistant Probabilistic Program Verification: The goal of my PhD project was to develop fully automatic techniques to analyze termination and expected runtime of functional probabilistic programs working with arbitrary data structures by analyzing probabilistic term rewrite systems. Please have a look at my website for a list of all publications.
- Teaching Assistant Programming Languages and Verification: Designing exercises, performing exercise sessions, assisting in lectures, etc. See my website for a list of all courses I participated in.

Projects

- AProVE: AProVE (Automated Program Verification Environment Web Interface) is a tool for automatically proving termination, runtime complexity, safety, etc. of several programming languages like Java, C, or Haskell.
- BWL Champion: BWL Champion is an app that allows users to test and expand their business knowledge digitally at any time via Quizzes and can even be played competitively.
- **AABC**: African Alphabets of the Bayreuth Cluster (AABC) provides mobiles and desktop PCs (Windows and iOS) with keyboards for all common African languages and scripts.
- Amsel Build up your voice: Amsel is a mobile application for singers of every performance level. It provides many warm-up techniques and exercises to develop a more professional singing voice.

SKILLS AND HOBBIES

Prog. Languages: Java, Python, Dart Technologies: AWS, Docker, Git

Hobbies: Competitive (E-)Sports, e.g., playing Handball, playing E-Bass and learning Violin