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ARNE BOOCKMEYER

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EMPLOYMENT

Software Engineer, Internship   **SAP Canada Inc.**   **Fall 2016 – Winter 2017**
- Working in an agile environment in the area of Product Infrastructure in Vancouver, Canada
- Improve the Product Deployment Process with Docker to move it from a maven build to an automated build inside a container

Software Engineer, Side Job   **Miaplaza Inc.**   **Since Spring 2014**
- Building the iOS app Quiz&Play, a multiplayer educational and fun app, in Objective-C
- Working on internal tools for managing content, mostly Java
- Regular interaction via IM, VOIP, and in-person travel with a multinational team in an English-speaking environment including nine several weeks internships abroad for example in the US

Teaching Assistant   **Hasso Plattner Institute**   **Since Spring 2015**
- Graded the exams and weekly tests of the lecture "Internet and Web-Technologies" from Prof. Dr. Christoph Meinel
- Four semesters preparation of programming contests and weekly tests of the lecture "Competitive Programming" from Prof. Dr. Friedrich
- Managing agile student-teams in a Scrum-based software development process and the server infrastructure of the lection "Softwaretechnik II" from Prof. Dr. Hasso Plattner

Software Engineer, Internship   **Univention GmbH**   **Spring 2011**
- Built and maintained bash scripts for the Debian-based operating system Univention Corporate Server

EDUCATION

Potsdam   **Hasso Plattner Institute**   **Since Fall 2013**
- Currently: PhD-Student in IT-Systems Engineering
- Master thesis about hybrid testbeds for fault injection in distributed software systems at the chair Operating Systems and Middleware of Prof. Dr. Andreas Polze
- Courses in software architecture and technics, web development and technologies, algorithm engineering, database systems, software testing and operating systems especially with virtualization
- Master of Science in IT-Systems Engineering in Winter 2019/2020 (Grade: A, 1,1)
- One-year project about SmartPort applications at the chair of Prof. Dr. Hasso Plattner in cooperation with the harbor of Hamburg and SAP

Bremen   **Schulzentrum SII Utbremen**   **Fall 2009 – Summer 2013**
- General qualification for university entrance with focus on Computer Science (Grade: A)
- Two years educational training in computer science with a degree (Grade: A)

TECHNICAL EXPERIENCE

Publications
- **Fit fürs Studium - Informatik** (2017). Co-Author of the book Fit fürs Studium – Informatik, a book about the basics of computer science mostly for pupils. Published at the Rheinwerk Verlag, ISBN: 978-3836244060, Pages: 411, https://fit-fuers-informatikstudium.de/ (German)
- **Hatebefi: Hybrid Application Testbed for Faul Injection** (2019). Arne Boockmeyer, Jossekin Beilharz, Lukas Pril and Prof. Dr. Andreas Polze. Poster-paper and poster presentation at the ISORC-Conference in Valencia.

Projects
- **openHPI Java Course** (2014 - 2015). Creating an online learning course teaching Java. The course had over 21,000 participants. https://open.hpi.de/courses/javaeinstieg2015 (German). Java
- **QuT / MiaEdit** (since 2014). Internal tool for managing the multimedia academic quiz content of Miaplaza Inc. Java, JavaFX, jGit, JSON
- **HTML5 Video Player** (2014 - 2015). Improvement of a HTML5 Video Player for the MOOC "openHPI.de" in cooperation with SAP. Polymer, Dart, HTML5
- **Python Package Dependencies Recommender** (2017 – 2018). Recommender for python dependencies based on so-far project-dependencies. Matrix Factorization, Python
- **Active Expression Implementation in Python** (2018). Library to support active expressions for reactive programming in Python. https://github.com/active-expressions/active-expressions-static-python. Static Code Analysis, Python
- **Cohydra** (2020). Advanced event-based hybrid testbed to test fault tolerance of software systems. https://github.com/osmhpi/cohydra. Docker, LXD, ns-3, SUMO, Python

- **"Deutsche Schülerakademie"** (2019). Co-Leader of the academy. Organizational responsibility for about 95 pupils and 16 team members.
- **"Deutsche Schülerakademie"** (2017, 2018). Lecturer at two two-week academies for highly skilled pupils about graph algorithms and software quality / testing.
- **"Deutsche Lebens-Rettungs-Organisation (DLRG)"** (since 2016). Lifesaving Instructor and Air Rescue Specialist. Technical Co-Lead for all educational courses of the DLRG Ortsgruppe Potsdam.
- **Grading for the "Bundeswettbewerb für Informatik"** (since 2015). Reviewing and grading of the solutions of the participants.
- **"Bundeswettbewerb für Informatik"** – Second Prize Overall, Best Group Work (2013). Biggest German programming contest with over 1180 participants.
- **Baltic Olympiad in Informatics (BOI)** (2013). Member of the German team for the BOI 2013 and participation in the Olympiad against 60 participants from other countries.
- **IOI Training** (2013). Selection seminar for the International Olympiad in Informatics. The 15 members for the seminar were chosen out of the 1000 competitors of the "Bundeswettbewerb für Informatik".
- **"Bremens Beste"** (2012, 2013). Award for my school degrees by the Freie Hansestadt Bremen.
- **Workshops and camps for pupils** (since 2013). Content preparation, organization and development of workshops and summer camps for pupils at the Hasso Plattner Institute.

LANGUAGES AND TECHNOLOGIES

- Java; JavaFX; Objective-C; PHP; Ruby on Rails; Python; SQL; JavaScript; Meteor; JQuery; HTML; CSS
- Eclipse; Netbeans; Webstorm; XCode; Linux Server; GIT; SVN; SAP HANA; ns-3; Docker; LXD; Scrum; Kanban