SIMON BREBECK

Portfolio: www.simonbrebeck.de | LinkedIn: www.linkedin.com/in/simonbrebeck

EXPERIENCE

Full-Stack Web Development Intern + Working Student   Sep 2023 - Sep 2024
SAP SE, Hamburg, Germany
- Planned, designed and implemented a cloud-native application for internal use, using React, SAP CAP with Node.js and HANA Cloud.
- Developed automated tests to maintain and improve software quality.
- Created and maintained technical documentation for software solutions.
- Co-organized an internal hackathon to foster SAP technology skills within the company.
- Implemented versatile tools to enhance internal processes.

Computer Science Teacher   Apr 2021 - Jun 2022
Freelancing, Cologne, Germany
- Taught basic concepts of imperative and object-oriented programming at a private learning institute using Java and the Java Swing GUI-Toolkit.

Scientific Assistant Intern   Jul 2019
University of Cologne, Cologne, Germany
- Implemented a graphical user interface for a Ph.D. student's dissertation using Python.

EDUCATION

B.Sc. Computer Science   Oct 2021 - present
RWTH Aachen University, Aachen, Germany

Abitur (High School Diploma)   Sep 2013 - Jul 2021
Silverberg-Gymnasium, Bedburg, Germany

Computer Science, Dual Enrollment (ger. Schülerstudium)   Apr 2019 - Sep 2020
University of Cologne, Cologne, Germany

PERSONAL PROJECTS

Database Designer   Apr 2024 - present
www.simonbrebeck.de/projects/dbdesigner
- A simple web-based database designer built with HTML, CSS, TS, Angular.

e-Learning Platform for Schools   Nov 2020 - present
www.simonbrebeck.de/projects/ellipso
- An interactive e-Learning Platform with class books, individual timetables, interactive courses and more, built with Java, Spring, MySQL, HTML, CSS, TS, Angular.

Cloud Storage System   Oct 2022 - Feb 2023
www.simonbrebeck.de/projects/storage
- A distributed and scalable object storage system inspired by object storage systems like AWS S3, built with Java, Spring, MySQL.

Calendar Web Application   Jun 2022 - Sep 2022
www.simonbrebeck.de/projects/calendar
- A responsive web calendar with custom user events and a dark mode, built with PHP, MySQL, HTML, CSS, JS.

SKILLS

Computer Languages	Java, C#, HTML, CSS, JavaScript/TypeScript, PHP, Python
Frameworks	Spring, Angular, .NET Core, React, SAP CAP, SAP UI5
Protocols	REST, OData, WebSockets
Databases	MySQL, Microsoft SQL, SAP HANA Cloud
Tools	Git, LaTeX, IntelliJ, Visual Studio 2022
Languages	English (fluent), German (native)

CERTIFICATIONS

SAP Cloud Native Developer (Node.js)   Dec 2023
https://www.credly.com/badges/1fcc82b6-1779-472c-add8-555145a68ec0
- Completed a training covering agile software engineering and cloud native development concepts like zero downtime deployments, CI/CD, TDD, Kubernetes and microservices.

AWARDS

1st Place at Junction Hackathon   Nov 2024
- 1st Place at one of Europe's biggest Hackathons, Junction (Challenge by HKFoods)
- Building a Web Application to reduce waste in a factory and improve manager communication.

Vice World Champion and Medallion for Excellence, WorldSkills Lyon 2024   Dec 2024
https://www.credly.com/badges/57a2eb06-6ccd-4181-85d2-180ddfb27c2a
- Vice World Champion in Speed Programming at the WorldSkills World Championship 2024.
- Awarded a Medallion for Excellence in Software Applications Development.

Gold Medal, Albert-Einstein-Cup (International Software Development Competition)   May 2024
- Gold Medalist in Software Applications Development, qualifying for the World Championship 2024.
- Developed desktop and mobile applications across five sessions, each lasting 2.5 to 3.5 hours.

Silver Medals, German National Software Development Championship   May 2023
- Silver Medalist in Mobile Applications Development, Software Applications Development, and Speed Programming at the German Championship by WorldSkills Germany.

2nd and 3rd Place, Deutscher Gründerpreis für Schüler (Student Start-up Competition)   Sep 2019 - Feb 2021
- Secured silver and bronze placements in a regional start-up competition.
- Planned a fictional company, created a business plan, conducted SWOT and market analyses, and designed a company website.

3rd Place, Mathematical Team Competition, University of Bonn   Sep 2020
- Bronze placement at the University of Bonn Mathematical Team Competition, solving topic-based math challenges.

VOLUNTEERING

Malteser Hilfsdienst e.V. (Civil Defense Unit)   Apr 2023 - present
- I assist within the emergency unit during disasters and emergencies.