David Hasse



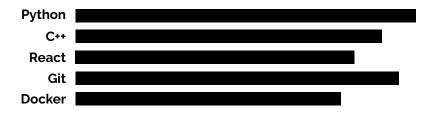
Pleikartsförsterstraße 1, 69124 Heidelberg

<u>#</u>

25. Oktober 1999

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Education

10/2018 - 3/2025 B.Sc. Computer Science

Heidelberg University

Grade: 2.0

Bachelor's Thesis: Grade: 1.0

"Enhancement of Visualization Capabilities and Optimization of an Interactive Tool for

Simulating and Interpolating Electrode Positions for Epilepsy Treatment"

9/2009 - 7/2017

German High School Diploma (Abitur)

Hölderlin-Gymnasium Heidelberg

Selected Projects

Epilepsy Planning Tool

Bachelor's Thesis

Further developed a simulation tool for planning epilepsy therapy \cdot reduced the error rate of FEM matrix-based electric field calculations by 70 % \cdot added new visualization methods \cdot enabled platform independence via Docker containerization \cdot modularized frontend, backend, and database \cdot collaborated closely with supervising PhD researcher

Portfolio Website Personal Project

Built a responsive portfolio site using Next, is 15, React, TypeScript, and Tailwind CSS • explored a modern frontend stack • set up domain via Namecheap • deployed the site using Vercel hosting • acts as a personal online profile referenced in job applications

Field-Consistent Glyphs

Student Software Lab

Implemented a ParaView plugin for field-consistent glyphs as part of a two-person team • enabled precise visualization of local vector and tensor fields • significantly improved interpretability of complex research data

Virtual Patient Cohorts Student Software Lab

Designed and implemented a flexible Python tool with a GUI for curve fitting in collaboration with a fellow student • enabled importing of arbitrary datasets • allowed fitting of user-defined functions (SciPy / Least Squares) • generated simulated patient cohorts for scenario analyses

Additional

Languages: German (native), English (C1), French (A2), Japanese (A2)

Interests: Technology (hardware & software), sciences, video games, cooking, exploring new things