David Hasse

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Education

10/2018 – 3/2025 **B.Sc. Computer Science** — **Heidelberg University**
Grade: 2.0
Bachelorarbeit: **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 epilepsy therapy planning (Unreal Engine 5 – C++/Python); reduced the error rate of FEM matrix-based E-field calculations by 70%. Additionally, I implemented new visualizations, made the tool platform-independent through Docker containerization, and decoupled frontend, backend, and database – in close collaboration with a supervising PhD student.

Portfolio Website — **Personal Project**
Built a responsive portfolio website using Next.js 15, React, TypeScript, and Tailwind CSS v4; explored a modern frontend stack, set up domain management (Namecheap) and cloud hosting via Vercel - using the site as a central application platform.

Field-Consistent Glyphs — **Student Software Lab**
Implemented a ParaView plugin for field-consistent glyphs as part of a two-person team; the plugin enables precise visualization of local vector and tensor fields and significantly increases the expressiveness of complex research data.

Virtual Patient Cohorts — **Student Software Lab**
Developed a flexible Python tool with GUI for curve fitting: imports arbitrary datasets, fits freely definable functions (SciPy / Least Squares), and generates simulated patient cohorts for scenario-based analyses.

Additional

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

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