

Gabriel Hauß *Full-Stack Software Engineer, MSc Software Engineering*

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EDUCATION

MSc Software Engineering (Part-Time) <i>University of Oxford</i> 🔗 <ul style="list-style-type: none">Subjects: <i>Object-Oriented Programming, Domain-Driven Design, Algorithms, Deep Neural Networks, Machine Learning</i>	10/2024 – 07/2026 Oxford, United Kingdom
BSc Physics and Mathematics <i>Maastricht Science Programme</i> 🔗 <ul style="list-style-type: none">Graduated with <i>summa cum laude</i> distinction and a GPA of 8.7Thesis title: <i>Formulation, Optimization and Automation of the University Course Timetabling Problem at the Maastricht Science Programme</i>Subjects: <i>Linear Algebra, Multivariable Calculus, Optimization, Differential Equations, Data Analysis, Special Relativity, General Relativity, Quantum Theory</i>	02/2020 – 02/2023 Maastricht, The Netherlands
Abitur <i>Grashof Gymnasium Essen</i> 🔗 <ul style="list-style-type: none">Graduated among the top 3% with a GPA of 1.2Subjects: <i>Physics and Maths</i>	08/2009 – 07/2017 Essen, Germany

PROFESSIONAL EXPERIENCE

Software Engineer <i>Maastricht University - Faculty of Science and Engineering</i> 🔗 <ul style="list-style-type: none">Designed, developed and maintained of a full-stack application (PostgreSQL, Typescript, React Flow, Prisma, Next.js, NextAuth.js, Express, Python, Flask und Git)Custom Content Management System (CMS) targeted at the university's specific requirements with implementation of an audit trail for quality assurance, role-based access control (RBAC), Single sign-on (SSO)Platform for course registration with integrated recommender algorithm and advanced scheduling algorithmAdvised the Chief Information Officer (CIO) on topics regarding digitalization and risks and chances of Artificial Intelligence in administration and educationHosted a workshop titled: <i>A recent graduate's insights into self-teaching, software development, and AI</i>	02/2023 – present Maastricht, The Netherlands
Software Developer <i>Flowt LLC</i> 🔗 <ul style="list-style-type: none">Built new features on top of an existing full-stack application (VueJS, C#, .NET, SQL Server)Re-designed the front-end and extended upon an existing e-commerce API with a new authentication flow (Google OAuth) and payment integration (Stripe)	04/2022 – 09/2022 Florida, USA
Faculty Council representative <i>Maastricht University - Faculty of Science and Engineering</i> 🔗 <ul style="list-style-type: none">Represented the student body in the faculty council as a member of the KAN (Climate Action Network) student partyPushed well-being and sustainability initiativesHelped implement Ecosia@UM, an initiative to switch the default search engine on all university PC's	09/2021 – 06/2022 Maastricht, The Netherlands
Student leader <i>Maastricht University - Faculty of Science and Engineering</i> 🔗 <ul style="list-style-type: none">Led a team to propose, design, develop, and launch an unofficial course registration platform that was used by more than 25% of all students at the faculty	06/2022 – 07/2022 Maastricht, The Netherlands
Student leader <i>Maastricht University - Faculty of Science and Engineering</i> 🔗 <ul style="list-style-type: none">Prototyped an autonomous greenhouse that uses a custom trained Neural Network to recognize plants and set optimal growth conditions (presentation video here 🔗)Tech used: <i>Tensorflow, Raspberry Pi, Arduino, Git, CI/CD, Flask</i>	01/2022 – 02/2022 Maastricht, The Netherlands

LANGUAGES

German (*Mother tongue*), **English** (*full working proficiency*),
Spanish (*limited working proficiency*)

INTERESTS

Reading, Football, Photography/Videography

COMPETENCES

Social competences: *communicative, tolerant to frustration, willingness to learn, solution-oriented*

Professional competence: *TypeScript, Next.js, Vue.js, Express.js, Python, Flask, Tensorflow, Git, SQL*