

Liam Greißing

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Technical Skills

Programming Languages: TypeScript, Java, JavaScript, HTML, CSS, C++, Python, R, Solidity, SQL
Technologies: Angular, React, Node.js, AWS, SpringBoot, Jira, WebStorm, VS Code, IntelliJ, PyCharm, CLion, Ant Design, PrimeReact, Tailwind, Bootstrap, PyTorch
Concepts: Agile Software Development, Scrum, Kanban, Front- and Backend Development, REST APIs, Distributed Systems, Distributed Databases,, User-centered Development, Cloud, Git, Linux
Languages: German, English, Spanish, French

Education

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| Technical University of Munich
<i>Master of Science in Information Systems</i> | Apr 2024 - Sep 2026
Munich, Bavaria |
| <ul style="list-style-type: none">• Major: Software Engineering, Minor: Machine Learning• Relevant Coursework: Blockchain-Based Systems Engineering, Requirements Engineering, Advanced Topics in Software Engineering, Natural Language Processing, Patterns in Software Engineering, Cloud Information Systems | |
| Technical University of Munich
<i>Bachelor of Science in Information Systems</i> | Oct 2020 - Mar 2024
Munich, Bavaria |
| <ul style="list-style-type: none">• Major: Computer Science, Minor: Entrepreneurship• Relevant Coursework: Basics of Object-Oriented Programming, Discrete Structures, Algorithms and Data Structures, Software Engineering, Computer Networks / Middleware and Distributed Systems, Concepts of C++• Bachelor's Thesis on "The Impacts of Lean Startup Approaches on Software Development"; Academic supervision by Accelerated Growth Consultant at Google | |

Experience

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| Software Engineering (Full-Stack) - Working Student
<i>Siemens AG</i> | Apr 2025 – Present
Munich, Bavaria |
| <ul style="list-style-type: none">• Built sorting logic for arbitrary data types, significantly simplifying the handling of lists with custom depth and enabling more efficient data visualization (Angular, TypeScript, SQL, PostgreSQL)• Migrated multiple Express routes from Oracle to PostgreSQL, reducing database licensing costs and improving system scalability (Express, TypeScript, JavaScript, SQL) | |
| Software Engineering (Full-Stack) - Working Student
<i>KPIT Technologies GmbH</i> | Apr 2023 – Apr 2025
Munich, Bavaria |
| <ul style="list-style-type: none">• Enhanced functionalities for importing, exporting, and downloading PDX files, resulting in an elimination of double-imported files and a download time decrease of 99% through the implementation of ngrx state management as well as a stack-based frontend and backend architecture (Angular, Node.js, TypeScript, AWS)• Successfully redesigned the user interface of a vehicle diagnostic application, bridging the gap between UX design concepts and Angular frontend capabilities, resulting in 90% positive user feedback (Angular, HTML, SCSS)• Successful migration of an Angular monorepository into a standalone application, including customization of the authentication mechanisms, connection to the AWS stack and upgrade from Angular 16 to Angular 18 (Angular, TypeScript) | |
| Innovation & Portfolio Management - Working Student
<i>Knorr-Bremse AG</i> | Nov 2021 – Apr 2023
Munich, Bavaria |
| <ul style="list-style-type: none">• Maintained the accuracy and integrity of Knorr-Bremse's database of 1000+ innovation projects (Excel)• Analyzed KPIs of business cases for innovation projects, providing valuable insights to inform decision-making and optimize project performance (Power BI)• Streamlined several trivial and recurring tasks, resulting in a significant reduction in task execution time from up to 3 hours down to 10-15 minutes by automating most of the manual entry processes (Excel, VBA) | |

Projects

CRM Tool for Energy Consultants | *TypeScript, JavaScript, React, Node.js/Express, MongoDB, VS Code*

- Co-developed a full-stack CRM for energy consultants using a React frontend and a Node.js/Express backend with JWT authentication (**React, Node.js/Express, JWT**)
- Implemented core functionalities including Stripe for secure payments and a real-time customer chat system using Socket.IO (**Stripe, Socket.IO**)
- Integrated the Google Solar API for lead generation and designed a modular UI with PrimeReact components and Tailwind CSS to power comprehensive dashboard analytics (**Google Solar API, PrimeReact, Tailwind CSS**)

Online IDE | *TypeScript, Java, Angular, SpringBoot, IntelliJ, WebStorm*

- Architected and built a comprehensive, web-based integrated development environment (IDE) in a team of 8 developers
- Led the frontend development, overseeing the design and implementation of key features, including a login/authorization view, a file management system and the actual editor (**TypeScript, Angular**)
- Collaborated on backend development of several APIs for compilation tasks and a reliable project repository (**Java, SpringBoot**)

Cloud Database | *Java, IntelliJ*

- Hands-on lab internship at TUM
- Co-developed fully functioning, SQL-operable distributed cloud database (**Java**)
- Added various functionalities including persistency, replicated storages and a MapReduce algorithm

Miscellaneous

Studierendenwerk München

Sep 2022 – Sep 2024

Volunteer

Munich, Bavaria

- Organized 10+ cultural and leisure events per semester for over 200 international students in state-run student residences in Munich, Freising and Rosenheim, receiving only positive feedback

ESN TUMi München

Oct 2020 – Mar 2023

Volunteer

Munich, Bavaria

- Guided groups of 20+ arriving international students through Munich every semester, introducing them to Bavarian culture and local attractions
- Curated a diverse range of cultural, recreational, and social events, fostering a welcoming and inclusive community for international students

Gap Year

Oct 2019 – Apr 2020

Backpacking Trip

- Embarked on a 6-month backpacking adventure through Thailand, Australia, New Zealand, and Bali, funding the trip through freelance landscaping work