GUNTHER BIDLINGMAIER ☒ ☒

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mail@bidlingmaier.net ☒
https://github.com/gbid ☒

WORK EXPERIENCE

Founder of Bewerbungshelfer.net ☒ — *January 2024 - present*
▷ Developed a Fullstack Web App for creating and optimizing job applications using Large Language Models.
▷ Rust | Axum | PostgreSQL | TypeScript | React.js | Docker

Software Engineer in CTO Taskforce, Check24 GmbH — *September 2023 - January 2024*
▷ Built a new server infrastructure for the core product of Check24 (Car Insurances).
▷ Deployment of a new application on this infrastructure including CI/CD and dynamic creation of logical preview environments for feature branches.
▷ Implementation of High Availability for core parts of the infrastructure, including the central MySQL database.
▷ Linux | Ansible | CI/CD | Kubernetes | Docker | MySQL

Researcher at the Chair of Algorithms and Complexity, TU Munich — *2021 - 2023*
▷ Designed, analyzed ☒, and implemented ☒ a greedy algorithm for a fundamental scheduling problem, simplifying understanding and implementation. Reduced running time from $\mathcal{O}(n^3 d^3)$ to $\mathcal{O}(nd)$.
▷ Taught a Bachelor's course ☒ on Probability Theory and a Master's course ☒ on algorithms and data structures.
▷ Rust | Discrete Optimization | LaTeX | Teaching

Working student at BMW AG — *April 2018 - March 2019*
▷ Programmed multiple Web applications (600 internal users) within a Web platform providing a unified API to diverse data endpoints within BMW IT systems.
▷ TypeScript | Node.js | React.js | GraphQL | Python | MongoDB | Distributed, international developer team

EDUCATION

M.Sc. Computer Science at Technical University of Munich — *2017 - 2020*
▷ Final grade: 1.1
▷ Relevant coursework: Advanced Algorithms and Data Structures,
Formal Methods, Algorithmic Game Theory

Erasmus stay at Chalmers University of Technology, Gothenburg, Sweden — *winter term 2017/18*
▷ Relevant coursework: Programming Languages, Dependent Types (Agda)

B.Sc. Information Systems at Technical University of Munich — *2014-2017*
▷ Final grade: 1.4 (top 5% of students)

Abitur at Ellentalgymnasien, Bietigheim-Bissingen — *2014*
▷ Final grade: 1.8

SELECTED PROJECTS

Codecrafters ☒
▷ Implemented a Bittorrent Client, Redis Server from scratch
▷ Rust | Async Programming | TCP Sockets

Generic Tactic Tracing in Isabelle ☒
▷ Extended the Proof Assistant Isabelle (200,000 lines of Standard ML code) to trace and hierarchically display all invocations of rewrite rules in the simplification engine's core
▷ Standard ML | Scala | Formal Methods

LANGUAGES

▷ German: native | English: fluent | Latin: Großes Latinum

SELECTED ACTIVITIES AND AWARDS

▷ Scholarship program TUM: Junge Akademie ☒ — *2016 - 2017*
▷ Symphony orchestra Junge Münchner Symphoniker ☒ — *2014 - 2023*