


GUNTHER BIDLINGMAIER

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mail@bidlingmaier.net 

https://github.com/gbid 

WORK EXPERIENCE

Founder of Bewerbungshelfer.net

January 2024 - present

- ▷ Designed, developed, deployed, and advertised a Fullstack Web application for creating and optimizing job applications using Large Language Models.
- ▷ Implemented user authentication from scratch, set up bot detection via Cloudflare Turnstile, integrated external APIs, deployed on Hetzner Cloud, advertised via Google Ads.
- ▷ Rust (5000 LoC) | Axum | PostgreSQL | TypeScript (5000 LoC) | 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) under guidance of the CTO.
- ▷ 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 Advanced Algorithms
- ▷ 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 of BMW IT systems.
- ▷ TypeScript | GraphQL | Python | 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 Latein

SELECTED ACTIVITIES AND AWARDS

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