GUNTHER BIDLINGMAIER

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https://github.com/gbid

WORK EXPERIENCE

Software Engineer in CTO Taskforce, Check24 *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

Researcher at the Chair of Algorithms and Complexity, TU Munich *2021 - 2023*
▷ Designed, implemented and analyzed a greedy algorithm for a fundamental scheduling problem, simplifying understanding and implementation compared to previous solutions. Reduced the 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*
▷ Worked on a Web platform providing a unified API to data endpoints within BMW IT systems
▷ Implemented user verification by interfacing with the BMW LDAP system
▷ Programmed multiple Web applications within this platform (600 internal users)
▷ Ticket based, agile work in an international, distributed developer team
▷ TypeScript | Node.js | React.js | GraphQL | Python | MongoDB

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
▷ Implementation of a Bittorrent Client, Redis Server from scratch
▷ Rust | Async Programming | TCP Sockets

Generic Tactic Tracing in Isabelle
▷ Extended the Proof Assistant Isabelle to trace and hierarchically display all invocations of rewrite rules in the simplification engine's core
▷ Codebase of more than 200,000 lines of Standard ML code
▷ 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*