GUNTHER BIDLINGMAIER

Wolfstraße 49, 74343 Sachsenheim, Germany
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WORK EXPERIENCE

Researcher at the Chair of Algorithms and Complexity, TU Munich *2021 - 2023*
▷ Research on Energy-Efficient Scheduling funded by the Deutsche Forschungsgemeinschaft
▷ Teaching for the courses Discrete Probability Theory and Advanced Algorithms

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
▷ JavaScript | TypeScript | Node.js | React.js | GraphQL | Apollo | Python | MongoDB | Git

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

Bachelor's thesis: Generic Tactic Tracing in Isabelle *summer term 2017*
▷ 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

iOS practical *winter term 2016/17*
▷ Developed an iOS App for assisting ZEISS AG service workers when installing machines on-site
▷ Development in a team of 7 using scrum methodology
▷ iOS | Swift | Python Flask | Scrum

TUM: Junge Akademie project dare2share *2016 - 2017*
▷ Conceived, implemented and evaluated an umbrella sharing system for the campus
  Garching Forschungszentrum (25000 students/employees) in an interdisciplinary student team
▷ The 250 umbrellas were tracked by 10 Raspberry Pis via Bluetooth beacons
▷ Protection of sensible data on the Raspberry Pis via LUKS encryption
▷ Linux | Python | Git | Project Management

TECHNOLOGIES

Python | JavaScript | Java | OCaml | Standard ML | Haskell | Git | Linux

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*
▷ Symphony orchestra Jugendphilharmonie Ludwigsburg *2011 - 2015*