David **Mödinger**

SOFTWARE ENGINEER · COMPUTER SCIENTIST (PhD)

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Work Experience

Startup in Stealth Mode
Heidelberg, Germany

SOFTWARE ENGINEER
Feb. 2023 - Today

- Technical responsibility for feature design and development.
- Requirements and design discussion with management and other stakeholders.
- Example: Correct and speedup installation process (from 80min to 30min).
- Example: Enable data transportation for application developers, improving development workflows and deployment.
- Replacement team organization and support for junior and other developers.

TeSolva GbR
Mainz, Germany (Remote)

SOFTWARE ENGINEER
Mar. 2022 - Jan. 2023

- Green-field feature development, as well as maintenance of legacy systems.
- Requirements discussion with project stakeholders.
- Mentoring of junior developers.

Ulm University
Ulm, Germany

RESEARCH SCIENTIST
Aug. 2015 - Jul. 2021

- Development of multiple research prototypes in teams and on my own: Sorrir, netsim2, coinview, btcmon and pricloud.
- Data Analysis of real-world observations and simulation based results, e.g., eta-adaption.
- Writing and presentation of journal-, conference- and workshop articles. All available on ketzu.net/science.
- Supervising, mentoring and teaching of students, as well as hiring and mentoring assistants.

Sole Proprietor
Ulm, Germany

FREELANCE CONSULTING AND DEVELOPMENT
2016-2022

- Requirements, estimates and feedback discussion with clients.
- Update, maintenance and management of client web presences.
- Design, development and publishing of video games on Steam and online platforms.

Ulm University
Ulm, Germany

RESEARCH ASSISTANT
Apr. 2014 - Oct. 2014

- Contributed weak-Popov form matrix operations to the open-source python math system Sage.

Education

PhD in Computer Science
Ulm, Germany

ULM UNIVERSITY
Aug. 2015 - Jul. 2021

- Cryptography and data analysis for privacy protocols in peer-to-peer networks.

M.S. in Computer Science
Ulm, Germany

ULM UNIVERSITY
Apr. 2012 - Mar. 2015

- Focus on computer security with a minor in psychology. Thesis on coding theory.

B.S. in Computer Science
Ulm, Germany

ULM UNIVERSITY
Apr. 2009 - Mar. 2012

- Includes a minor in mathematics.

Technologies and Skills

Typescript, Python, C++, JavaScript, Rust, Java. Git, Docker, Traefik. Vuejs, React, DJango, HTMX.

Proficient in German and English. Basic knowledge of Korean.