Emre Yalcinoglu

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Education

2020–	**MSc in computer science**, *University of Bonn*, Germany. AI track - Deep RL project
2016–2020	**BSc in mathematics with minor in computer science**, *University of Bonn*. Focus on algebraic topology, differential geometry, category theory Bachelor's thesis: Dold-Kan Correspondence
2010–2015	**High school**, *Kabatas Erkek Lisesi*, Istanbul, Turkey. Scored %0.1 percentile in the Undergraduate Placement Exam

Professional experience

02/2024–Present	**Software engineer**, *Autodesk*. Large Model Viewer Team, computer graphics, web rendering engine, WebGPU
04/2022–09/2023	**Software engineer intern**, *Autodesk*. Full-stack web development. AWS, Spring, MongoDB and React. Helped developing Autodesk Viewer, an app with half a million users per day. Collaboration with Microsoft on Fluid Framework. TypeScript.
06/2021–03/2022	**Student research assistant**, *Fraunhofer IAIS*. NLP implementations and cloud support. Worked on the DigMa project using PyTorch and sklearn. Managed Azure Lab Services.
01/2021–05/2021	**Software engineer**, *Murmuras*. Fullstack development with MEAN stack. Took over an app, improved and integrated.
04/2019–09/2019	**Student assistant**, *University of Bonn*. Real Analysis, in German, weekly lectures and homework assignments.

Software skills

Software	3 years of professional experience with Spring, Java, (No)SQL, AWS, JavaScript, Typescript, React. 1 year of professional experience with WebGL, WebGPU.
Machine learning	1 year of professional experience with ML/AI. Proficient in Python, multiple NLP and vision projects with PyTorch and sklearn. OpenCV with C++. End-to-end quantitative portfolio management.
Miscellaneous	Hackathon project with Rust, multiple university projects with C++, Haskell project for automated theorem proving, deployed smart contracts via Solidity.

Languages

Turkish	English	German
native	fluent	advanced (DSH-3, C1)

Certifications

Professional Scrum Master I (PSM I)	AWS Certified Cloud Practitioner
03/2020	06/2021

Awards

Hackathon@Welthungerhilfe	RustFi Hackathon
02/2020 First place	10/2022 Runner-up