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Summary

After graduating from TU Munich with a BSc. in Computer Science, ranking in the top 2% of my class, I enrolled in a psychology degree at LMU to discover novel connections between the two fields. On the side, I am involved in various research projects like Stanford's ManyBabies, and I am building an e-Learning platform based on drawing exercises.

Work Experience

Software Development – Working Student

University of Munich | May 2021 – Present

Working in a team of researchers in the field of developmental psychology to gather and analyze eye-tracking data in infant trials.

- Extending JsPsych to support infant-friendly eye-tracking calibration, video capture, data visualization, and end-to-end encryption
- Leading the technical side of a multinational collaborative study
- Building and supporting IT infrastructure for the lab
- Developing a full stack webapp that automates the trainee-seminar matching process for the university's training institute for child psychologists. It considers trainee preferences and workload, seminar capacity, and time constraints/conflicts.

Software Development – Working Student

Fleetcleanse | June 2019 – August 2019

Building a SaaS platform in the mobility industry to optimize carsharing maintenance

- Working with the IBM Cloud infrastructure (Watson, Virtual Servers)
- Writing Python scripts to enable cloud integration for the backend
- Technical presentations for potential VC and business angels

Software Development – Working Student

University of Munich | December 2017 – June 2019

Assisting a team of researchers in the field of empirical pedagogy by developing software to collect and process data in empirical trials.

- Writing trial software for data collection and evaluation in Python
- Working with a legacy Java codebase
- Developing R scripts to help with data cleanup/processing

Education

Psychology BSc.

University of Munich

Munich, Germany

October 2020 - Present

Computer Science BSc.

Technical University of Munich

Munich, Germany

October 2017 – October 2020

Grade: 1.2

(Scale 1.0 - 5.0)

Korean Advanced Institute of Science and Technology

Daejeon, South Korea

September 2019 - December 2019

Abitur

Ludwigsgymnasium Munich

Grade: 1.0

(Scale 1.0 - 6.0)

2008 - 2016

Awards

Full Time Scholarship

German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)

best.in.tum Membership

best.in.tum comprises the top two percent of students of the Department of Informatics at TUM.

Projects

draw.study (url: draw.study)

Javascript, React, Redux, Python, Django, DRF, Docker

A webapp that allows students to learn about various topics by completing digital drawing exercises on a tablet. It was...

- officially used in a biopsychology lecture at LMU to deliver 150+ drawing exercises to first year psychology students
- used for data collection in a study for anatomical education with over 100 participants
- a finalist in the "TUM Future Learning Initiative"

Technical Skills:

- Designing a dynamic frontend and implementing it with React + Redux
- Building a backend that delivers drawing exercises, and handles user data and authentication using Django, DRF, and PostgreSQL
- Working in an environment with rapidly changing requirements based on user feedback and changes in the design of the medical study
- Continuously developing a live system (migrating database schemas, using staging servers, using CI with automated tests)
- Using Affinity Designer to create vector-based drawing templates

Psychology Studying Resources

Various technologies

I create webapps and study resources for my psychology degree and share these with my classmates to help them with exam preparation.

They include:

- Executable statistics cheat sheets covering all relevant formulas in the degree (R, Shiny server, LaTeX).
- A filterable timeline of child development (Nextjs, React)
- Browsible interlinked seminar paper summaries (Jekyll, Markdown, Python, GitHub Actions)
- 2500+ flashcards covering all relevant exam topics of the first three semesters.

Skills

Programming Languages

Python

Javascript

Java / Kotlin

R

C

x86 Assembly

HTML / CSS

Software Development

Version Control (Git)

SQL

Docker

React, Redux

Django, DRF

System Design

Requirements Engineering

Languages

English (Full working proficiency/DAAD C1)

German (Native)

Korean (Basic)

Old Greece (Basic)