

CHIRAG SINGAL

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Interdisciplinary Researcher & Data Scientist | Psychology, Web Development, and Curriculum Design Specialist

Professional Summary

I am a research-driven learning enthusiast passionate about making information and knowledge accessible through intuitive, playful, and immersive experiences. With diverse experience ranging from early childhood education in kindergartens, teaching University students, and career changers entering the tech world , to designing simple web solutions and developing data pipelines With university degrees (Masters & Bachelors) in psychology, I bring a versatile, hands-on people centric approach to projects. Technology should be fun.

WORK EXPERIENCE

Wissenschaftliche Mitarbeiter | June 2024 - Present

Universität Leipzig - SEPT Kompetenzzentrum

- Designed and implemented advanced motion tracking data pipelines for IoT devices, web solutions for facial expression analysis, eye tracking app, manual video coding tool for students data collection and analysis, project funding finances manager app, web dashboards etc using Typescript, Node JS and Python hosted locally and with cloud.
- Organised workshops and an international conference in teaching simple digital tools to network partners from Asia, Africa and Europe.
- Collected data for rural handwerk SMEs in Saxony under the BMBF funded project.
- Wrote project proposals for further funding, created project reports.

Web Developer and Teacher | July 2022 - August 2023

Devhaus Leipzig

- Learned technologies like HTML, CSS, Javascript, Typescript, NodeJS, React, Express JS, MongoDB, Docker, and Git, as well as design and prototyping with UX/UI tools such as Figma.
- Designed curriculum, exercises, and taught career changers as students everything from an introduction to computer programming to securing jobs as web developers at various firms.
- Worked as project managers along with students on capstone projects, organised hackathons.

Student Research Assistant | April 2021 - May 2022

Universität Leipzig - Leipziger Forschungszentrum für frühkindliche Entwicklung (LFE) now HumanKind

- Assisted in research design, created research material, contacted interested parents, and conducted research with Indian children.
- Implemented strategies for online research design during the COVID-19 pandemic, with a focus on maximizing child interaction during online research.

Giraffe Uncle | November 2018 - September 2019

Founder and Curriculum Designer

- Organised regular play sessions after school hours for the kids in early childhood from various backgrounds to promote non competitive outdoor play with a focus on socio emotional learning.
- Organised interactive circle time sessions for children to open up regarding feelings, conflicts and their general emotional well being - under the campaign “Sit and Chill” sessions.
- Facilitated workshops, teacher training sessions, published paper under the theme of “Play based learning” across India in schools, kindergartens, national and international conferences.

ACADEMIC HISTORY

Master of Science Early Childhood Research | 1,7

Universität Leipzig | 2019 - 2024

- Gained proficiency in R for Linear Models, Regression, Power, Confidence Interval, and Open Science Agenda.
- Master Thesis: Sharing behavior in Indian children - understanding difference between what children intend to share vs what they actually share using economic games, supervised by Dr. Marie Schäfer and Jun.-Prof. Dr. Sebastian Grüneisen.

Bachelor of Arts in Psychology Honours | 1,7

Christ University, India | 2011 - 2014

- Triple Bachelor's program including Sociology and English Literature. Practiced many psychometric tests, interdisciplinary approach to research.
- Bachelor Thesis: Understanding emotions and facial expressions from the context of Indian psychology supervised by Dr. Baiju Gopal (cultural psychology) - a qualitative study.

CERTIFICATIONS

Full Stack Web Developer | 2022

Devhaus Leipzig

Foundations of Project Management | 2023

Google - Udemy certification

Agile Project Management | 2023

Google - Udemy certification

Gender and Sexuality: Diversity and Inclusion in the workplace

TECHNICAL SKILLS

- Eye Tracking Analysis
- Facial Expression Analysis
- R programming, Data Analysis
- Frontend - Backend Web Dev
- Python, Computer Vision, Machine Learning and proficiency working with LLMs

DESIGN SKILLS

- UX/UI with Figma
- Prototyping/Testing: Storybook
- Canva, Image and Video Editing

INTERESTS

- Entrepreneurship
- Board Games
- Football and Cycling
- Cooking
- Organizing Events

LANGUAGE

- English (native)
- Hindi (native)
- German (B1)