

# Heidi Albarazi

Computer Science Student | Designer

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https://heidi-albarazi.vercel.app/

https://dribbble.com/wedalb

https://github.com/wedalb/vulcanome

## Professional Experience

### Software Engineering Research Intern in HAX

JETBRAINS

APRIL 2026 - NOW



- Enhancing Tech Creation through Multimodal Context
- Designing and implementing a minimal, modular VR prototype.
- Creating and testing a pipeline for working with eye-tracking + interaction data for analysis/ML.
- Delivering one focused interaction or model (e.g., mode-switching, gaze-aware navigation, or gaze-guided inference) with a short evaluation.
- Writing a research paper

### Venture Developer in Product Design

TUM VENTURE LABS

AUGUST 2025 - MARCH 2026



- Supported startups in UX, MVP development, and Lean Startup methodology.
- Assisted with branding, communication, and design to strengthen market presence.
- Maintained website and Venture Lab app; coordinated and ran events.
- Developed presentations to support internal and external communications.

### Career Mentor & Hackathon Mentor

MASTERSCHOOL

MARCH 2025 - NOW



- Conduct mock interviews to strengthen students' job-readiness and confidence
- Provide hands-on support for Python-based hackathon projects and technical challenges
- Advise students on interpersonal, communication, and teamwork skills
- Help students navigate the transition to the job market with tailored feedback and coaching

### UX Design in Intrapreneurship & Open Innovation

SIEMENS

MARCH 2025 - MAY 2025



- Contributed to the rebranding of Siemens' global innovation platform, shaping UX concepts, brand identity, and messaging strategy
- Produced design and marketing content (e.g., newsletters with 70K+ readers, social media campaigns, event visuals) using Figma and Adobe tools
- Collaborated in a hybrid agile team, supporting open innovation initiatives and intrapreneurship programs

### Software Engineering Research Intern

JETBRAINS

JUNE 2024 - NOVEMBER 2024



- Designed and delivered end-to-end UI/UX for a smart seminar system, informed by user research and usability testing
- Developed a full-stack web interface using SvelteKit, with integrated CI/CD via GitHub Actions and Docker
- Implemented unit tests to ensure front-end and API stability
- Tech stack: SvelteKit, Python, SQLite, Docker, GitHub Actions, Cloudflare

### Campus Ambassador

JETBRAINS

OCTOBER 2023 - NOVEMBER 2024



- Organized and led student meetups, workshops, and Q&A sessions, showcasing JetBrains tools and technologies
- Promoted internship opportunities and facilitated presentations on internship projects
- Coordinated JetBrains' participation in campus career events and hackathons

### UI/UX Design Working Student

TOOWOXX

JUNE 2022 - AUGUST 2023



- Conducted UI/UX design using Figma, including wireframing and prototyping
- Performed user testing to gather insights and improve design iterations

### Research Assistant in Informatics

MELESSA LMU

OCTOBER 2020 - MAY 2022



- Developed a full-stack desktop application using Kotlin and Compose
- Set up and maintained socio-economic experiments in a laboratory environment

## Education

### Master of Science: Robotics, Cognition, Intelligence

TECHNICAL UNIVERSITY OF MUNICH

OCTOBER 2025 - NOW

### Bachelor of Science: Informatics

TECHNICAL UNIVERSITY OF MUNICH

OCTOBER 2018- OCTOBER 2025



- Medical Application Focus:** Computer-assisted decision support, medicine-related courses, and projects.
- Key Courses:** Functional programming and verification, algorithms and data structures, computer architecture, Software Engineering, Introduction to AI, Data Analysis & Visualization (R), Three-Dimensional User Interfaces
- Bachelor Thesis** (Grade: 1.0): "SMARIOT - Elevating Elderly Independence through Smart Mirror, Augmented Reality, and IoT Technologies."
  - TUM Chair of Augmented Reality
  - Researched and developed a smart home system using IoT sensors and a smart mirror as the central hub to assist elderly users in daily tasks (medication management, home automation, IoT integration, elderly usability)

### High School Diploma | Grade: 1.8

LION-FEUCHTWANGER GYMNASIUM MUNICH

SEPTEMBER 2007 - MAY 2018

## Leadership & Awards

### Manage & More Scholarship

UNTERNEHMERTUM

- Entrepreneurial Leadership:** Selected as one of 20 scholars per intake for an elite 18-month entrepreneurial excellence program at UnternehmerTUM, Europe's leading innovation center.
- Venture Development:** Collaborated with industry partners and startups in high-pressure innovation projects, applying design thinking and agile methodologies to solve complex business challenges.
- Proactive Skill-Building:** Completed intensive training in leadership, project management, and business modeling, while building a network within Germany's premier tech-startup ecosystem.

### Student Clubs & Initiatives

TUM.AI MANAGE&MORE TEG CODE&CHILL START MUNICH BIOINFORMATICS STUDENT CLUB

- Product Design & Growth:** Led end-to-end UI/UX design and growth marketing efforts, leveraging Figma and user research to scale student club reach.
- Technical Contributions:** Balanced software engineering tasks with research and web development to build robust digital platforms for the TUM entrepreneurship community.
- Workshop Facilitation:** Organized the TEG Innovation Ecosystem, mentoring students in Figma and lean UX methodologies to foster a user-first mindset.

### Social Engagement

REFUGEE CENTER MUNICH NORTH

- Taught German language and mathematics to children aged 4-16, providing homework assistance and tutoring

### Hackathon Awards

HACKATUM, QHACK, START HACK, CASSINI HACK, TUM.AI MAKEATHON, ETHHACK, JUNCTION HACK, BASELHACK, FUTUREPYNK, XR HACKATHON BOCHUM

- Finalist in multiple hackathons with over 500 participants, including HackaTUM, TUM.ai Makeathon, and 10 others
- Cassini Hack Winner:** Developed a platform for real-time population estimation using satellite data (Python)
- Immersive XR Planetarium Hack:** Created an immersive AR escape game using the planetarium dome
- TUM.ai Makeathon Winner:** Chrome extension for gender bias detection
- TEG Hackathon Winner:** Designed a product concept for a fitness app
- QHack Winner:** Using sensors and an Arduino to detect early signs of mold to prevent food waste in supply chains

## Skills

### Programming Languages

JAVA, KOTLIN, PYTHON, SWIFT, HASKELL, C, C++, JAVASCRIPT, C# TYPESCRIPT, ASSEMBLY

### Technical Competences

- Frontend & Web Development:** React, Svelte/SvelteKit, Jetpack Compose, HTML5, CSS3, Dash, Streamlit, Tkinter, Chrome Extensions, Next.js
- Mobile Development:** Compose Multiplatform, Swift & SwiftUI, Ionic, Flutter, React Native
- Backend Development & Programming:** Python, Kotlin, Java, SQLite, Docker
- Design & Prototyping:** Figma, MockUp, Canva, Procreate,

### Languages

Native: German, Arabic

Fluent: English

Beginner: Japanese, Portuguese, French



## Projects

### iOS Developer

MSG SYSTEMS - IPRAKTIKUM TUM



- iOS Development (ARKit, TFLite, CoreML, SwiftUI, Swift), UI & Logo Design (Figma, Affinity Designer), Scrum (Jira, Confluence)
- Designed and developed an AI-powered AR iOS app to detect supermarket products and display sustainability info, using Scrum with weekly sprints.

### Medical Application Project

KLINIKUM RECHTS DER ISAR



- Developed an Imfusion plugin using OpenCV, Processing, miPhysics library, and C++ to map MRI images to sound, aiding in surgery navigation

### Data Nexus Project

START MUNICH X PUBLIC MAKERS LAB



- Collaborating with the municipalities of the city of Traunstein to develop a dashboard and data analytics tools that support data-driven decision-making in local governance.