RAMIN HEDESHY

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EDUCATION

PhD
Human-Computer Interaction
University of Stuttgart
2020-present

M.Sc
Web Science
University of Koblenz-Landau
2016-2019

B.Sc
Software Engineering
Azad University of Mashhad
2009-2012

SKILLS

Web & Software Development
Scientific Research,
HCI, Machine Learning
Scrum, Agile
C++, PHP, Python, Java,
TypeScript, JavaScript, Node.js
VueJs, AngularJS,
HTML5, CSS3, jQuery
Pytorch, Sklearn
SQL, NoSQL,
Postgre, MySQL, MongoDB
Django, Express, Drupal, and Slim

RECENT EXPERIENCE

September 2021 - present, Founder & CTO
Semanux GmbH
Semanux makes the digital world more inclusive by enabling people with disabilities to control the computer via their individual capabilities.

April 2020 - Present, Scientific Researcher
Analytic computing department, University of Stuttgart
My research focus is on Multimodal interaction combining eye tracking with other modalities e.g., non-verbal voice interactions, AI, and accessibility.

Aug 2016 - Mar 2020, Senior Full-stack Web Developer
Union Betriebs-GmbH
Developed a rules proposal and version control system that is used by Bundestag, the German federal parliament.

Jun 2015 - Mar 2016, Senior Back-end Developer
Bliksund AS
Developed a RESTful web service for the Bliksund app used by the majority of hospitals in Norway. Bliksund is a leading provider in the digital transformation of emergency services.

TEACHING

2020 Tutor in Machine learning (Awarded for the 3rd best course of the year)
2021 Tutor in Human-Computer interaction and Information Retrieval

AWARDS

2013 Web application Security, Ferdowsi University of Mashhad

SELECTED SOFTWARE PROJECTS

Semanux Access. A software tool designed to assist individuals with motor impairments by enabling hands-free control of computers.

MICME. A BMWi funded project with the aim of providing multimodal hands-free interactions for surgeons in medical environments.

Antragswesen. A rules proposal and version control system I have implemented for the German government.

Angela Merkel's Personal Website. I've been entrusted with the task of implementing the personal website of Chancellor of Germany, Angela Merkel.

Bliksund Native Application. The Bliksund project contains many functionalities, mainly facilitating the communication between hospitals and ambulances.

Hedeshy.com

SELECTED PUBLICATIONS

R.Hedeshy, C. Kumar, M. Lauer, S. Staab
All Birds Must Fly: The Experience of Multimodal Hands-free Gaming with Gaze and Nonverbal Voice Synchronization.

R. Hedeshy, C. Kumar, R. Menges, S. Staab
Hummer: Text Entry by Gaze and Hum. "CHI '21, Yokohama, Japan"

R. Hedeshy, C. Kumar, R. Menges, S. Staab
GIUPlayer: A Gaze Immersive YouTube Player Enabling Eye Control and Attention Analysis." ETRA '20"

C. Kumar, R.Hedeshy, R. Menges, S. Staab
TAGSwipe: Touch Assisted Gaze Swipe for Text Entry. "CHI '20, Honolulu, HI, USA"