ZIWEI HE

📞 +49 1625852652 ✉ ziweihe1031@gmail.com 📍 Saarbruecken, Germany

SKILLS

Technical Skills

- Fast Prototyping
- Programming Languages: Python, C, Java, Javascript/Typescript
- Web Development: HTML/CSS, React

Research Skills

- Adaptability to New Research Topics and Required Skills
- Successful Interdisciplinary Research

Soft Skills

- Structured Problem Solving(See examples on Github)
- Openness to Feedback
- Excellent Presentation Skills (View Master Thesis presentation)

EDUCATION

Master: Mediainformatics
Saarland University
GPA: 1.9 (German Grading System)
Expected Graduation: June 2024

Bachelor: Software Engineering
Sun Yat-sen University
GPA: 3.5/4.0 (USA Grading System)
Graduation Year: 2016

REFERENCE

Fei Chen
fei.chen@dfki,.de
Agents and Simulated Reality
German Research Center for Artificial Intelligence

Helena Kilger
helena.kilger@uni-saarland.de
Department of Psychology
Division of Social Psychology
Saarland University

PROFILE

I am a dedicated and adaptable researcher with a strong foundation in Software Engineering and a keen interest in the intersection of **healthcare and AI**. I've gained valuable interdisciplinary research experience through participation in cross-section projects with material science, psychology, and media art researchers.

Recently I completed a '**Digital Health**' online track by Imperial College London to deepen understanding of healthcare challenges and solutions. I seek the opportunity to leverage my skills and experiences to contribute to innovative research in the healthcare+AI domain.

PROJECT EXPERIENCE

Integrating ImageJ/Fiji Image Processing in Chaldene Visual Programming System
23 Oct.- 24 April.

ASR group, German Research Center for Artificial Intelligence

- Conducted research to integrate Java-based ImageJ/Fiji image processing into Python-based Chaldene project on JupyterLab.
- Extracted plugin I/O information from ImageJ API
- Developed a Visual Node Specification Generation Pipeline to automatically import ImageJ libraries into the Visual Programming Environment.

Chaldene: Visual Programming Language to Lower Barriers in Scientific Image Processing
23 April.-23. Sep.

ASR group, German Research Center for Artificial Intelligence

- Developed front-end visual nodes served as function module based on React and MUI
- Developed auto-connection for visual nodes with same datatype
- Developed context-aware search menu that only provides adaptive nodes

Psychology Project: How are you.help
22 Sep.-23 Mar.

Social Psychological Aspects of Media Psychology, Saarland University

- Initiated the concept of a self-care web application following a literature review in social psychology and media psychology.
- Developed a web application that promotes self-health care through interaction with a virtual agent.
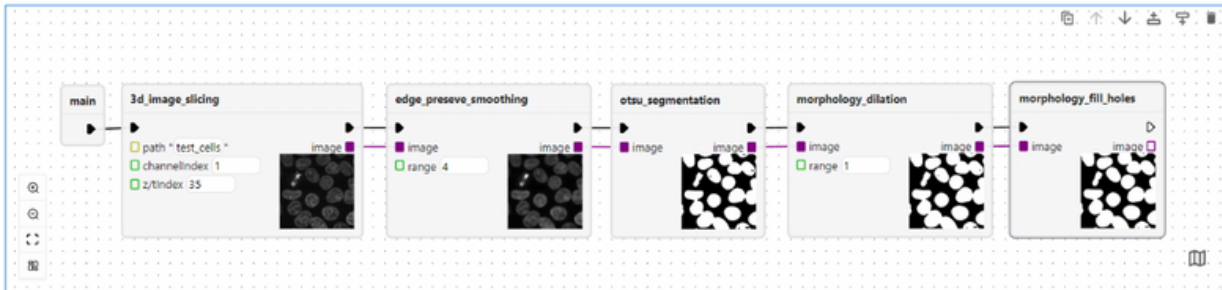
Art Project: Briefing Machine
20 Aug.-21 Feb.

Communication design Group, Hochschule der Bildenden Kueste Saar(HBK)

Official project website: briefingmaschine.hbksaar.de

- Provided multiple prototypes that generate random design ideas tailored to client demands.
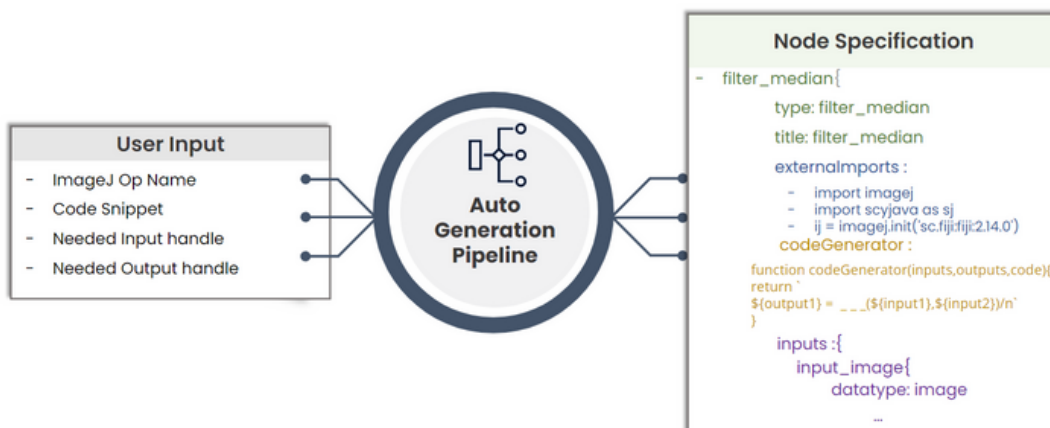- Implemented responsive web pages compatible with both mobile and desktop devices based on HTML, CSS, Javascript.

ZIWEI HE

📞 +49 1625852652   ✉ ziweihe1031@gmail.com   📍 Saarbruecken, Germany

PROJECT PORTFOLIO

◆ ImageJ in Visual Programming

◆ Node Specification Auto Generation Pipeline

◆ Briefing Machine