Changkun Ou, Ph.D.

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Online version: https://changkun.de/s/resume

changkun.de

Resume

Last updated: September 8, 2026

Staff Engineer @ Sixt SE | Ph.D. in Computer Science, LMU Munich

Building production AI systems end-to-end: agent platforms, LLM gateways, sandbox runtimes, eval/oversight loops, and enterprise AI workflows. At Sixt, leading organization-wide AI transformation with executive and C-level stakeholders and establishing self-hosted, self-controlled full-stack AI engineering infrastructure with embedded security and governance, driving 7k+ users to active AI usage and native agentic workflows plus a 2.5% margin uplift through human-in-the-loop revenue optimization. Research background in human-AI interaction (438 citations, h-index 11). See Research Portfolio.

Recent Professional Experience

Staff Engineer (promoted from Software Engineer) **Sep. 2022 – Present**

Sixt SE *Munich Pullach, Germany*

- **AI transformation**: Leading organization-wide AI transformation in direct partnership with executive and C-level stakeholders; drove 7k+ users to active AI usage and native agentic workflows.
- **AI infrastructure**: Established self-hosted, self-controlled full-stack AI engineering infrastructure with embedded security and governance across compute, model, harness, and application layers: compute sandbox, LLM gateway, chat agents, document intelligence, and more.
- **Revenue optimization**: Designed and built AI-driven revenue optimization solutions; drove 2.5% margin uplift and made yield systems 300x faster for 10x business scale.
- **Customer service**: Integrated LLM-powered, knowledge-centric systems to accelerate customer-service transformation for the Sixt SE POS.

Research Associate, Lecturer **Apr. 2018 – Mar. 2023**

LMU Munich *Munich, Germany*

- **As lecturer**: Supervised 18 students in conducting scientific research
- **As researcher**: Researched human-in-the-loop machine learning for 3D graphics systems
- **As teacher**: Taught 12 classes (as lecturer/instructor/assistant/tutor) and supervised 20+ student theses and seminars
- **As developer**: Developed a 3D mesh processing backend system in collaboration with industry partner WAY digital solutions; developed, migrated, and maintained a 17-year-old university CMS system and a 13-year-old collaborative system

Expertise and Skills

- **Domain**: *AI deployment and agent platforms*; *LLM gateways, evals, sandbox runtimes, OAuth/OIDC, Kubernetes*; *Machine learning* (PyTorch/sklearn/TensorFlow/etc.); *Data analysis* (numpy/seaborn/pandas/etc.); *Computer graphics* (3D rendering and geometry processing, Blender/OpenGL/Metal/three.js); *Web development* (Go/React/etc.).
- **Language**: *Go* (9+ years); *Python* (7+ years); *LaTeX* (10+ years); *C/C++* (5+ years); *JavaScript/TypeScript* (5+ years); I speak native Mandarin; fluent professional English; elementary German.

Research

Human-AI interaction research: 15+ peer-reviewed papers, 438 citations, h-index 11; Best Paper at ACM VRST and Honorable Mention at ACM MuC. Full list: changkun.de/research.

Education

Ph.D. Media Informatics (Dr. rer. nat.) **Feb. 2019 – Apr. 2023**

LMU Munich *Munich, Germany*

- **Thesis**: *"The Intelligence in the Loop: Empirical Explorations and Reflections", Magna cum Laude*
- **Advisor**: *Prof. Dr.-Ing. Andreas Butz*

Master Student Human-Computer Interaction (M.Sc.) **Oct. 2016 – Jan. 2019**

LMU Munich; overall grade: 1.63 (max. 1.0) "Very Good" *Munich, Germany*

- **Thesis**: *"Understanding and Predicting Web Browsing Behavior"*
- **Advisors**: *Dr. Daniel Buschek, Dr. Malin Eiband, Prof. Dr. Heinrich Hußmann*

Bachelor Student Computer Science and Engineering (B.Eng.) **Sep. 2012 – Jul. 2016**

Southwest University for Nationalities; overall grade: 3.74 (max. 4.0), ranked 1st of 154 students *Chengdu, China*

- **Thesis**: *"Designing Alternative Contact-free Control Modalities for Smart Watches"*
- **Advisor**: *Prof. Dr. Yaxi Chen*

Open Source

#2 most active developer in Germany by public contributions (7,000+ in the past year). 27k+ GitHub stars, 17k+ commits across 100+ repositories.

- **Go Language and Fyne (organization member)**: Go x/mobile maintainer and contributor to runtime/standard library; one of 12 Fyne core members contributing graphics drivers and performance.
- **golang.design and TalkGo (founder/core member)**: Founded 25+ project organization with 465k+ page views; contributed high-traffic talks to 6.3k+ subscriber Go community.
- **Notable contributions**: LibreChat, mcp-go, TensorFlow, etcd.
- **Selected packages**: clipboard (1k+ stars, 2.8k+ dependents), hotkey, mainthread - cross-platform Go libraries for GUI/system programming.