

Satoru Akita

✉️ wwlap24@gmail.com

📞 +81-70-4157-2275

LinkedIn satoru-akita-6070a4145

Github wwlapaki310

SKILLS

Languages: Python, C/C++, TypeScript, JavaScript, Bash

ML / AI: PyTorch, TensorFlow, OpenCV, MediaPipe, Computer Vision, 3D sensing

Cloud & Infrastructure: Azure, AWS, GCP, Docker, CI/CD, MLOps pipelines

Specialization: Edge-Cloud hybrid systems, Distributed architecture, Data structures & algorithms

Soft Skills: Solution Scoping & Feasibility Analysis, On-site Technical Diagnostic & Requirement Engineering, Hardware-Software Integration Strategy, Technical event operations

EDUCATION

M.S. in Robotics

Tohoku University, 2017-2019

MEMS sensors, semiconductor processes, data utilization, machine learning

B.S. in Mechanical Engineering

Tohoku University, 2013-2017

Robot contests, Programming work (particle simulation with C++ & OpenGL), Aerospace/Genetic/Control engineering

CERTIFICATIONS

Google Certified Professional - Cloud Architect

TensorFlow Developer Certificate

AWS Solutions Architect - Associate

Azure AI Engineer Associate

Registered Information Security Specialist

AWARDS & PUBLICATIONS

SecHack365 (2019)
NICT-sponsored 1-year security hackathon program. Built Fasttext AI to visualize emotional transitions from Twitter posts. Selected for SXSW (Austin) and won an award at the on-site hackathon.

**Grand Prize,
BIOMOD 2015**

International biomolecular design competition, Harvard University

Third Prize, iCAN'14

Global embedded systems competition - Developed earthquake-responsive bookshelf divider system

Published Papers:

Froemel, J., Akita, S., et al. (2020). Micromachines (MDPI)
Uchida, T., Akita, S., et al. (2017). Small (Wiley)

- **Pioneered internal ToF ML use case,** independently building **46-class sign language recognition system (98% accuracy, 15 FPS)**; designed depth + facial landmark fusion pipeline from data collection to deployment
- **Led ML development for ToF + RGB 3D pose estimation system** showcased at CES

LEADERSHIP

Founding Member

Whole Brain Architecture Young Researchers (Tohoku Chapter, 2018)

SW Conference/ Event Operations

SRE NEXT, Open Source Summit Japan, SecHack365

Gemini API

Hackathon

Mentor in collaboration with Google AI Student Ambassadors