

Satoru Akita

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🌐 [wwlapaki310](https://github.com/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