Yoshiaki Sato

Computer Science and Communications Engineering Student

Tokyo, Japan • Yoshi.sato@fuji.waseda.jp • 090 5282 6969 • github.com/yoshiisato • https://yoshiisato.github.io/

EDUCATION

WASEDA UNIVERSITY **Tokyo, Japan**

Bachelor of Science in Computer Science and Communications Engineering **2022-2026**

PROJECTS

Malware Analysis Research

- Analyzed well-known malware (e.g., WannaCry, Zeus, Stuxnet) via static (binary reversing) and dynamic (sandboxing, Wireshark) methods.
- Explored ConvNet on the MaleVis Dataset to classify malware binaries, comparing AI-based static detection against traditional signature-based systems.

Pre-Training Pipeline for Decoder Transformer

- Managed and optimized a large-scale ML workflow, improving loss by 40% from initial training rounds.
- Utilized over 35 hours of A100 GPU compute on Google Colab to train and refine model architectures.

SKILLS

- Programming Languages: C, Python
- AI/ML: PyTorch, WandB, Docker, AWS (EC2, SageMaker, RDS, etc.)
- Cybersecurity: Nmap, Metasploit, BurpSuite, Ghidra, x64dbg, Malware Analysis

EXPERIENCE

Project Research, Network Security Lab (**Waseda University**) **Oct - Jan 2025**

- Enhanced understanding of network, web, and offensive security concepts through TryHackMe and PicoCTF.
- Conducted binary reverse engineering using Ghidra and x64dbg, experimenting with ML integration to automate parts of malware analysis workflow.

MLOps Intern, HowCollect Inc. **Tokyo, Japan, Apr - Jun 2024**

- Developed, fine-tuned, and deployed AI chatbots across various platforms (LINE, Zendesk, etc.) using AWS.
- Implemented RAG models using OpenAI, Claude, and LLaMa to customize solutions for corporate clients.

Intern, Singularity Systems **Princeton, New Jersey, May - Aug 2021**

- Gained foundational knowledge in coding, including Python and OOP principles.
- Explored computer vision techniques using OpenCV, including document analysis and image preprocessing.

EXTRACURRICULAR ACTIVITIES

Cofounder of Kuma Lab **Apr 2024 - Present**

- Established a student community focused on robotics and AI research, fostering collaboration and knowledge-sharing to advance STEM research in Japan.

Backend Developer, Google Developers Student Club **Nov 2023 - Feb 2024**

- Collaborated on the Google Solution Challenge, developing a tool to improve navigation for university laboratories.